SERVICE MANUAL

AEP Model

DTC-1000ES

DATM-02



SPECIFICATIONS

Refer to ACP-88 Service Manual issued previously for infomation of ac pack/battery charger ACP-88 supplied with this set.

Tape

Recording system Recording time

Tape speed

Drum rotation

Error correction Number of channel

D/A conversion Fequency response Signal-to-noise ratio

Dynamic range

Total harmonic distortion Wow and flutter

Digital audio tape Rotary head

120 minutes (with DT-120)

8.15 mm/s

Approx. 2.000 rpm Double Reed Solomon code

2 channels, stereo 16-bit linear

20-22.000 Hz (±1 dB) More than 85 dB

More than 90 dB (at 1 kHz) Less than 0.008% (at 1 kHz)

Below measurable limit

Input

Input jacks	Jack type	Impedance	Minimum input level
LINE IN	Phono × 2		35 mV
MICROPHONE	Phone × 2		0.3 mV

Output

Output jacks	Jack type	Impedance	Rated Output	Load impedance
LINE OUT	Phono ×2	470 ohms	0.25 V	more than
HEADPHONES	Stereo phone	150 ohms	0 to 18 mV	32 ohms

Tape

Track pitch

Sampling frequency

Modulation system Transfer rate

13.6 µm (20.4 µm)

for playback: 48 kHz, 44.1 kHz, 32 kHz

for recording: 48 kHz 10 Modulation

2.46 Mbit/sec. (before modulation)

^	_	_	_	_	ı

Weight

Power requirements

6 V in DC operation

100-240 V AC, 50/60Hz using the AC pack

(supplied)

Model Name Using Similar Mechanism

Tape Transport Mechanism Type

Battery life Approx. 2 hours of continous recording with

the supplied NP-22H battery pack fully

charged

6.5 W using NP-22H Power consumption

Full range: 50 mm dia., cone type Speaker 200 mW in DC operation Power output Dimensions

Approx. 253 × 55 × 191 mm $(10 \times 2^{1/4} \times 7^{5}/_{8} \text{ inches}) (w/h/d)$ excluding projecting parts and controls

Approx. 1.8 kg (4 lbs) including batteries Approx. 1.5 kg (3 lbs 5 oz) excluding

batteries

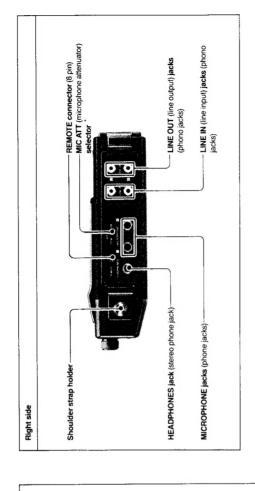
-Continued on page 2-





Microphone (supplied)			TABLE OF CONTENTS	
Туре	Electret condenser microphone			
	(with back-electret condenser capsules)			
Microphone output conne	ector	Castina	$T:H_{\alpha}$	Dan
	Phone plugs (2)	Section	\underline{Title}	Page
Dimensions	Approx. $30 \times 175 \text{ mm } (1^{3}/_{16} \times 7 \text{ inches})$			
	(outside diameter × length)	SECTIO	N 1 GENERAL	
Weight	Approx. 216 g (7.7 oz) including batteries	1.1	Location of Parts and Controls	9
Frequency response	50 Hz — 18,000 Hz			
Directivity	Directive angle: Selectable between 90° and	1-2.	Repair Check Points and Cautions	
	120°	1-3.	Test Mode	. 7
Output impedance	550 ohms \pm 20%, unbalanced	1-4.	Operation in Test Mode	-
Output level (at directive a				
	Open circuit output voltage: $68 dB$, $\pm 3 dB$	1-5.	IC's Pin Description	. 8
	$0 dB = 1 V/1 \mu bar, 1000 Hz$			
	Recommended load impedance more than	SECTIO	N 2 DISASSEMBLY	
	3 kohms			1.5
Power requirements	R6 (size AA) battery	2-1.	Knob	. 17
	Normal operating voltage: 1.5 V	2-2.	Cassette Compartment's Dress Panel	. 17
	Minimum operating voltage: Approx. 1.1 V	2-3.		
Battery life	Approx. 2500 hours of continous operation			
	with Sony SUM-3 (NS)battery	2-4.		
Noise level (at directive ar		2.5.	Drum	. 18
	Signal-to-noise ratio: More than 49 dB	2-6.	Jack Plate	. 18
	(1000 Hz, 1 μ bar)			
	Inherent noise**: Less than 25 dB SPL (0 dB	2-7.		
	$SPL = 2 \times 10^{-4} \mu bar)$	2-8.	Reel Motor	. 19
	Wind noise* (with wind screen): Less than	2-9.	Capstan Motor	. 19
	45 dB SPL	2 0.	Cupotan intoto	
	Induction noise from external magnetic			
	field**: Less than 10 dB SPL	SECTIO	N3 MECHANICAL ADJUSTMENTS	. 20
	* Wind noise is the value measured by			
	applying a wind velocity of 2 m/sec.	SECTIO	N 4 ELECTRICAL ADJUSTMENTS	. 23
	(6.6 ft/sec.) from all directions to the micro- phone. The mean value is taken and	SECTIO	N4 ELECTRICAL ADJUSTMENTS	20
	converted to the equivalent input sound			
	level.	SECTIO	N 5 DIAGRAMS	
	** The external magnetic field induction		Block Diagram	31
	noise is measured with the microphone			
	placed in an alternating magnetic field of 50		Circuit Boards Location	
	Hz, 1 milligauss. The maximum noise value	5-3.	Printed Wiring Board-Main Section-	. 34
	is taken and then coverted to the equivalent	5-4.	Schematic Diagram-Main Section	. 37
	input sound level.			
Maximum sound pressure		5-5.	Printed Wiring Board—Analog Section—	
	More than 117 dB SPL	5-6.	Schematic Diagram—Analog Section—	. 45
Dynamic range	More than 92 dB	5-7.	Printed Wiring Board—Display Section—	48
, ,		5-8.	Schematic Diagram—Display Section—	. 51
Accessories supplied				
Remote controller (1)		5-9.	Semiconductor Lead Layouts	. 54
Microphone (with wind so	creen and microphone holder) (1)	5-10.	Waveforms	. 55
Carrying case (1)				
Shoulder strap (1)		CECTIO	N.C. EVDLODED VIEWS	
AC pack ACP-D10 (1)	10.75		N 6 EXPLODED VIEWS	
Battery charge adaptor B	C-D10 (1)	6-1.	Cabinet Section	. 59
Battery pack NP-22H (1)		6-2.	Front Panel Section	. 60
Lithium battery CR2025 (Chassis Section	
Sony battery SUM-3 (NS)	for microphone (1)			
DAT cassette tape			Mechanism Section (DATM-02)	
Connecting cord (two pho	ono plugs ←→ two phono plugs) (2)	6-5.	Mechanism Section (DATM-02)	63
		CECTIO	N 7 FIECTDICAL DADTS LIST	61

SECTION 1 GENERAL



Compartment for clock battery

Date/time setting button

OPEN (Cassette compartment window — open) button

Built-in speaker

Battery compartment

Cassette compartment door

EJECT button

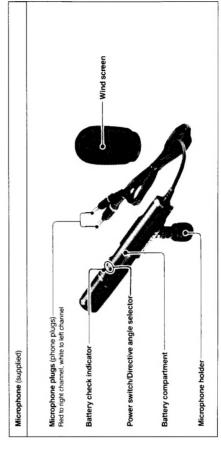
Tape transport operation buttons

← REW (rewind)/REVIEW

■ STOP

► PLAY (playback)
►► FF (fast-forward)/CUE
● REC (record)/INDEX
■ PAUSE

Cassette holder



LIMITER (microphone limiting) switch

-HOLD switch

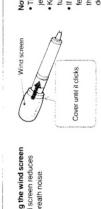
REC LEVEL (recording level)

controls

[ape transport mode indicators (▶/●/II)

Peak level meters

SCAN buttons





▲▲/▼► (selection search) buttons

COUNTER RESET button

COUNTER button

*RECORDED TIME (recorded date and time indication) button

LIGHT button

When you use the unit in the dark, press this button and the display window is illuminated for about ten seconds.

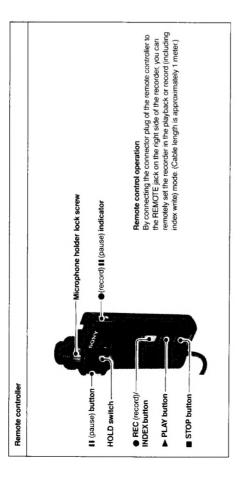
CLOCK (date/time select) button

Keep the microphone away from extremely high tempera-tures (above 60°C or 140°F). If the microphone is placed near loudspeakers, a howling effect (accustic feedback) may occur. If this happens, change the direction of the microphone until the howling stops, or decrease the sound volume of the loudspeakers. Notes on using the supplied microphone • The microphone should never be dropped or otherwise subjected to extreme shock.

VOLUME control

Display window

POWER switch - and indicator



Attaching the microphone to the remote controller Supplied microphor holder R6 (size AA) battery (supplied) Battery installation

Fighten to fix

Determine the angle and tighten the screw.

Notes on the remote controller

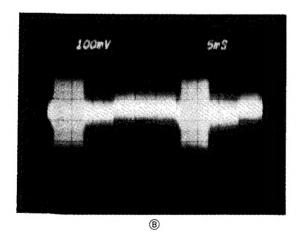
- Before connection of disconnecting the connector plug of the remote controller, the sure to furn off the power of the recorder.

- If anything metallic touches the REMOTE connector on the right side of the recorder, it may be treated as a remote control signal and so the operating mode may change unexpectedly.

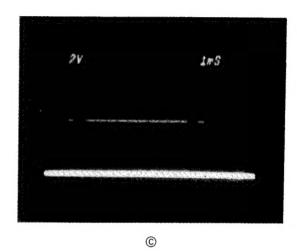
To check the battery condition of the microphone When the power switch is moved from OFF to ON (90%), the battery check indicatow will light momentarily. When the battery becomes weak, the indicator will light dimly or will not light at all. In this case, replace the battery with new one. For battery life, see Specifications on page 22.

1-2. REPAIR CHECK POINTS AND CAUTIONS

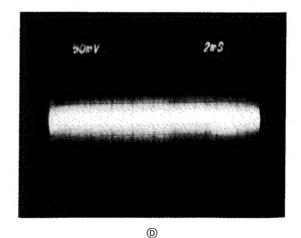
- When the TCD-D10 contains a chargeable battery, power is supplied to IC507 only. When the POWER switch is pressed, power is supplied to the LED or LCD display. When the PLAY switch is pressed, power is supplied to the MD block.
- 2. For troubleshooting, put the set into test mode 2 and check that the power clock oscillates.
- 3. When power is not applied after the POWER switch is pressed, assume that power is not supplied to IC507, a reset signal is supplied to pin ① of IC507, or the POWER switch is defective. (Power is turned on or off whenever the signal at pin 44 of IC507 goes low.)
- 4. The system is normal if the amplitude at TP52l exceeds 220mVp-p when the FF button is pressed with alignment tape TY-7251 loaded in test mode 1. If the amplitude is less than 220mVp-p, assume that the head is drity or the RF block is defective.
- The RF block is normal if signal (A) is sent to pin (46) of IC529 and signal (B) exceeding 110mV is output to TP520.
 - 500mV 5#S



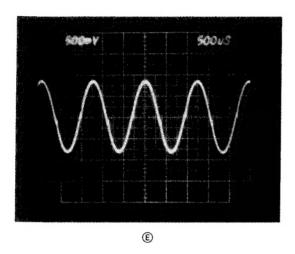
- 6. The RF amplifier (consisting of Q540 through Q542) is defective if a signal exceeding 110mV is sent to TP520 and a signal exceeding 220mV is not output to TP521. (The output ratio of TP521 and TP520 is 2 to 1.)
- When VCO ir ATF is normal, a CRC pulse © is output from pin ① of IC502. The VCO or ATF can thus be checked using the pulse.

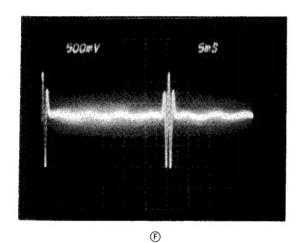


- 8. ATF is locked using IC515 when the signal at pin @ of IC515 is low. When it is high, ATF is not locked.
- The head is normal if signal (1) appears when an oscilloscope is connected to the head output.

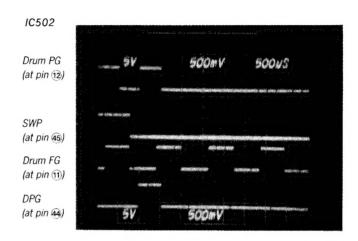


10. The drum sensor is normal if drum FG signal € (at pin ① of IC519) and drum PG signal € (at pin ② of IC519) appear as shown below.

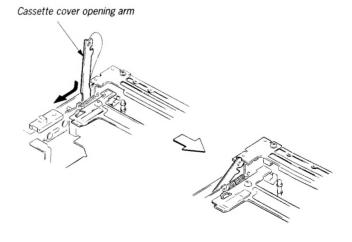




- 11. The signal at pins (8) and (23) of IC502 goes high when the drum servo is normal.
- 12. An SWP signal (at pin �5 of IC502) is produced from a drum PG signal (pin ⑦ of IC520) and drum FG signal (at pin ① using IC502). A DPG signal (at pin �4 of IC502) is then produced from the SWP signal.



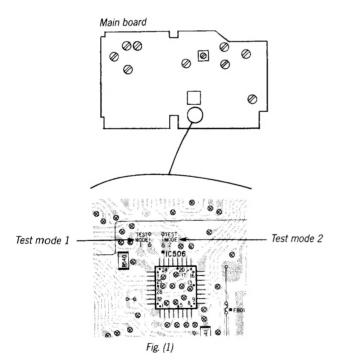
13. Cassette cannot be loaded when the TCD-D10's cabinet is removed. The system can operate normally when the cassette cover opening arm is set after the cassette is inserted as shown in the figure below. (When the lever is not released, however, the cassette cannot be ejected.)



1-3. TEST MODE

- 1. The test mode is entered when all power to the system is turned off (all power off) and test mode 1 or 2 on the main board is solder-bridged (see Fig. (1)).
- 2. The test mode is entered as soon as the POWER switch is turned on.
 - (The normal mode is entered when the POWER switch is turned off in the test mode.)
- 3. The test mode is canceled and the normal mode is entered when the portion solder-bridged in Step 1 is open in the all power off mode and power is turned on.
- 4. The stop position is changed if power is turned on again in the all power off mode and the test mode is entered when the test mode is entered in the STOP mode. Put the set into the loading mode again.
- 5. All LCDs flash when test mode 1 is entered. The display is the same as in the normal mode when test mode 2 is entered.

Note: Be sure to return the set to the normal mode after repair.



1-4. OPERATION IN TEST MODE

Test mode 1

Mode	Operation key
Loading	COUNTER
Unloading	CLOCK
×1.5	FF
-×1.5	REW
STOP	STOP

Test mode 2

Mode	Operation key	
Loading	COUNTER	
Unloading	CLOCK	
CUE (×16)	Press the PLAY button in CUE (×2.5) mode.	
REVIEW (-×16)	Press a PLAY button in REVIEW $(-\times 2.5)$ mode.	
REC	Press REC and PLAY buttons at the same time (not actually recorded).	
Other operations are	the same as in normal mode.	

1-5. IC'S PIN DESCRIPTION

IC401(CXA1045Q)

Pin No.	Symbol	Description
1	POATA	PB signal output terminal.
2	NC	
3	PLIM IN	PB limiter input terminal.
4	PLIM PC	PB limiter bypass capacitor connection terminal.
5	EQ OUT	PCM equalizer output terminal.
6	LOW	Resistor connection terminal which determines the PCM equalizer's low-range characteristics.
7	HIGH	Resistor connection terminal which determines the PCM's equalizer high-range characteristics.
8	PHASE	Resistor connection terminal which determines the PCM's equalizer phase characteristics.
9	P Vcc	Power terminal for PB and control logie systems other than head amplifier limiter.
10	EQ IN	PCM equalizer input terminal.
11	NC	
12	SW OUT	Switch amplifier output terminal for output from two channels.
13	B 2ND OUT	
14	в нсті	Resistor connection terminal which determines the B-CH PB low-pass filter's cut-off frequency.
15	A 2ND OUT	
16	A HCTL	A-CH PB low-pass filter.
17	B PC2	B-CH second RF amplifier's bypass capacitor connector terminal.
18	REF PC	REF block bypass capacitor connection terminal.
19	NC	
20	P GND	GND terminal for PB syster other than head amplifier limiter.
21	A PC2	A-CH second RF amplifier's bypass capacitor connection terminal.
22	B RACTL	Usually not used.
23	B RAIN	B-CH REC AMP input terminal.
		REC limiter control's B-CH output terminal.
25	B RA OUT	•
26	B PIN	B-CH head amplifier input terminal.
27	B PC1	B-CH.
28	HA Vcc	Head amplifier's power terminal.
29	B HA OUT	
30	HA GND	Head amplifier's GND terminal.
31	RA GND	REC amplifier's GND terminal.
32	A HA OUT	
33	RA Vcc	REC amplifier's power terminal.
34	A PC1	A-CH head amplifier's bypass capacitor connection terminal.
35	A PIN	A-CH head amplifier's input terminal.
36	A RA OUT	A-CH REC amplifier's output terminal.
		REC limiter control's A-CH output terminal.
38	A RAIN	A-CH REC amplifier's input terminal.
F	A RACTL	Usually not used.
$\frac{40}{41}$	AF REC RP	Logie terminal to entor the after-recording mode (not used in TCD-D10).
43	LIM GND	Control terminal to designate REC and PB modes (H: REC, L: PB, Open: L). GND terminal for PB and REC limiter controls.
43	SAG	
45	LIM Vcc	REC sag compensation capacitor connection terminal. Power terminal for PB and REC limiter controls.
$-\frac{45}{46}$	RDATA IN	Terminal to input recorded data to a REC limiter controls.
47	BR VOL	REC limiter control's B-CH amplitude adjustment terminal.
48	AR VOL	REC limiter control's A-CH amplitude adjustment terminal. REC limiter control's A-CH amplitude adjustment terminal.
40	AR VUL	ADO minter controls a on ampittude adjustment terminal.

IC502(CXD1052Q)

Pin No.	Symbol	Description
1	94M	Master clock input terminal (9.408MHz).
2	128K	Servo reference input terminal (12.8kHz).
3	XCLR	Rest input terminal. Reset by low level.
4	PCOT	Capstan phase comparison output terminal. A state output.
5	DVS2	Setting of voltage applied to the drum motor when servo is applied during SEARCH.
6	VSS	GND.
7	CFG	Capstan FG input terminal.
8	JTSP	Just speed monitor terminal. Set to the just speed in high level.
9	CFGO	Capstan FG output terminal.
10	DVS1	Setting of voltage applied to the drum motor when servo is applied during SEARCH.
11	DFG	Drum FG input terminal.
12	LPG	Drum PG input terminal.
13	SPPW	Speed servo PWM output terminal.
14	PHPW	Phase servo PWM output terminal.
15	BSPW	Bias servo PWM output terminal.
16	CREF	Capstan frequency reference output terminal (unused).
17	RFDT	RF signal input terminal. (The existence of a signal is indicated by the signal being "1" or "0". The result is input to IC.)
18	RFW	RF window output terminal. The RF signal is detected by low level.
19	VDD	+5V power terminal.
20	TST1	Test input terminal. Usually set to low.
21	TIO1	Test output terminal. Usually set to low.
22	XC16	Capstan mode select input terminal. Set to x16 mode by low level.
23	JSTL	Just lock monitor terminal. Just locked by high level.
24	TIN4	Test input terminal. Usually set to low.
25	TIN1	Test input terminal. Usually set to low.
26	ARST	Alarm cancel input terminal in SEARCH mode. Canceled by low level.
27	XDON	Drum ON/OFF select input terminal. Set to ON by low level.
28	TIN3	Test input terminal. Usually set to low.
29	TOU3	Test output terminal.
30	TOU3	Test output terminal.
31	VSS	GND.
32	TIO2	Test output terminal. Usually set to low.
33	XALM	Alarm output terminal in SEARCH mode. Alarmed by low level.
34	XVAR	External reference setting terminal (pin 2). Usuall set to high.
35	XREW	FF/REW setting terminal. Set to REW by low level.
36	XSER	SEARCH mode setting terminal. Set to SEARCH by low level.
37	DBRK	Drum brake output terminal. Brake set on by high level.
38	TOU1	Test output terminal.
39	TOU2	Test output terminal.
40	TIN5	Test input terminal. Usually fixed to low.
41	DREF	Drum PG reference input terminal.
42	TST2	Test input terminal. Usually set to low.
43	VDD	+5V power terminal.
44	DPG	Delay PG (DPG) input terminal.
45	SWP	Switching pulse output terminal.
46	PLLK	Drum lock monitor output terminal in SEARCH mode. Locked by high level.
47	CRC	CRC signal input terminal. CRC OK for high level.
48	RPCK	Reference input terminal in SEARCH mode.

IC507(µPD75108GF)

Pin No.	Symbol	Description
1	MUTE	Audio circuit's mute output.
2	PBLED	PB LED ON output.
3	PAULED	PAUSE LED ON output.
4	CLCK	Real-time clock IC's serial clock output.
5	CLSTB	Real-time clock IC's strobe output.
6	CLDO	Real-time clock IC's serial data output.
7	RESET	Reset input.
8	X_2	Clock oscillation terminal.
9	X_1	Clock oscillation terminal.
10	KCK	Input expansion IC's serial clock output.
11	L/S	Input expansion IC's parallel load output.
12	SD 1	Input expansion IC's serial data output.
13	SD 0	Input expansion IC's serial data output.
14	LCDCK	LCD driver's serial clock output.
15	CS	LCD driver's chip select output.
16	C/D	LCD driver's command/data select output.
17	LCDD	LCD driver data output.
18`	DTCTL 1	Subcode data control output 1.
19	DTCTL 2	Subcode data control output 2.
20	BL	Back-light control.
21	ALMRES	CXD1052Q's drum defect reset output (in SEARCH only).
22	XREW	Tape transport output.
23	XDON	Drum servo ON/OFF control output.
24	XSER	SEARCH mode output to drum servo.
25	XC16	Capstan servo constant select output in ×16 mode.
26	V_{ss}	
27	CLDI	Serial data input from real-time clock IC
28	SBSY	Subcode sync.
29	REELS	Reel motor FG's supply input.
30	REELT	Reel motor FG's take-up input.
31	ATD1	PB ATF signal.
32	RF	PB output detection input.
33	XALM	Drum defect in SEARCH mode.
34	BATT	Battery voltage detection input.
35	CDIRI	Flag input to reverse the capstan rotation.
36	GND	
37	POWO	DD converter power ON/OFF output.
38	EMP	Emphasis control output.
39	RECLED	REC LED ON output.
40	RES	System reset output.
41	SUBDTI	Playback subcode data input.
42	SUBDTO	Subcode data output from microcomputer in REC mode.
43	EXCK	Subcode data output from microcomputer.
44	POWI	Power switch.
45	PAUSE	PAUSE mode output.
46	СРН	Capstan motor's phase servo ON/OFF output.
47	CMON	Capstan motor ON/OFF control output.

Pin No.	Symbol	Description
48	CDIRO	Capstan motor rotation output.
49	TREG	ON/OFF output for tension regulator and D/A output select control.
50	RCK	D/A converter's serial clock output.
51	RSTB	D/A converter's strobe output.
52	RDT	D/A converter's serial data output.
53	XTLOCK	Take-up reel lock in load/unload mode.
54	ATFON	ATF control output.
55	PLG-	Brake on.
56	PLG+	Brake release.
57	NC	
58	V_{DD}	
59	SWP	Drum PG signal.
60	END T/S	Take-up sensor input for tape end detection.
61	LEDS	End detection LED ON output at supply reel.
62	LEDT	End detection LED ON output at take-up reel.
63	UNLOAD	Tape loading motor's reverse output.
64	LOAD	Tape loading motor's forward output.

IC515(CXA1046M)

Pin No.	Symbol	Description
1	RF IN	RF input terminal.
2	F CTL	External resistor connection terminal for pilot filter (LPF) characteristics.
3	B VOL	B-CH gain adjustment resistor/bypass capacitor connection terminal of gain control amplifier.
4	A VOL	A-CH gain adjustment resistor/bypass capacitor connection terminal of gain control amplifier.
5	PILOT OUT	Pilot signal output terminal.
6	ENV DET IN	Envelope detection input terminal.
7	ENV HOLP	Envelope detection hold capacitor connection terminal.
8	S/H 3 OUT	Sample and hold 3 output terminal.
9	SWP	Process signal's A-CH/B-CH select control terminal (H: B-CH, L: A-CH).
10	ATF ON/OFF	ATF block (other than RF DET) ON/OFF select terminal.
11	NORM PLAY	Determines whether the normal mode is entered (L: Normal mode).
12	ATS1	Sample and hold 1 sample pulse input terminal.
13	TE	Tracking error output terminal.
14	VCC	Power supply.
15	HOLD3C	Sample and hold 3 hold capacitor connection terminal.
16	HOLD2C	Sample and hold 2 hold capacitor connetion terminal.
17	ATS2	Sample and hold 2 sample input terminal.
18	ATS3	Sample and hold 3 sample pulse input terminal.
19	SYNC OUT	ATF sync signal output terminal.
20	GND	GND.
21	LIM PC	Limiter block's bypass capacitor connection terminal (can be replaced with pin 22). Negative input.
22	LIM IN	Limiter input terminal (can be replaced with pin 21). Positive input.
23	EQ OUT	ATF sync equalizer output terminal.
24	PCTL	Resistor connection terminal for sync equalizer's phase characteristics.
25	LCTL	Resistor connection terminal for sync equalizer low-range characteristics.
26	DET C1	Smoothing capacitor connection terminal which determines the RF detector's threshold.
27	DET C2	RF envelope waveform's adjustment capacitor connection terminal.
28	RF DET OUT	RF detector output terminal.

IC529(CXD1009Q)

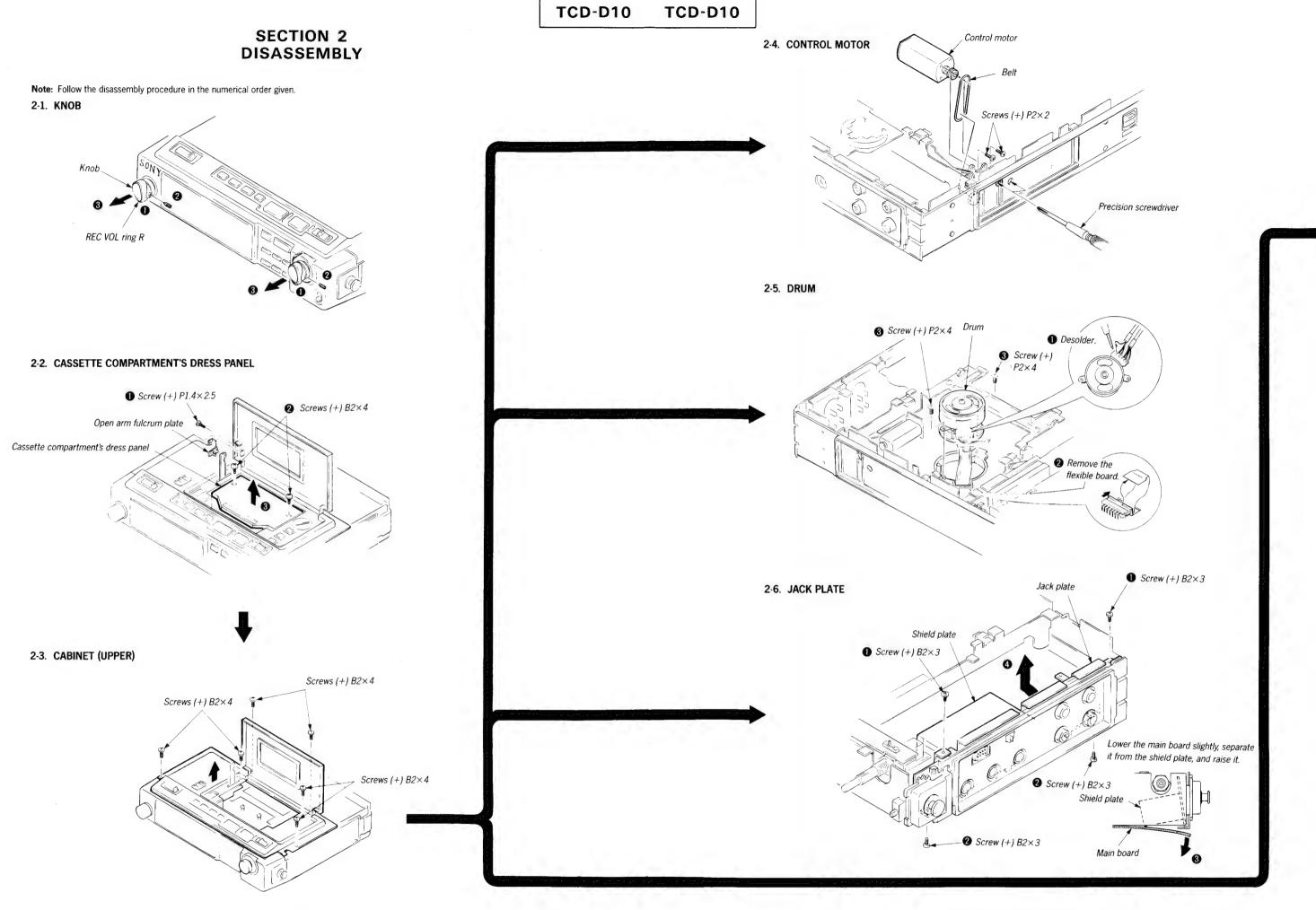
Pin No.	Symbol	Description
1	PTRD	Input from CXD1008Q. (Identifies whether the ECC data is a pointer or data.)
2	PRGE	ECC program end signal (from CXD1008Q).
3	ECA0	ECC code address (from CXD1008Q).
4	ECA1	ECC code address (from CXD1008Q).
5	ECA2	ECC code address (from CXD1008Q).
6	ECA3	ECC code address (from CXD1008Q).
7	ECA4	ECC code address (from CXD1008Q).
8	C1C2	To CX1008Q (C1 and C2 process identification).
9	PRGS	To CXD1008Q (ECC program start signal).
10	ECRP	To CXD1008Q (ECC encode/decode identification).
11	PREN	To CXD1008Q (ECC external RAM I/O process enable).
12	Vss	GND.
13	CLKO	To CXD1008Q (18.816MHz output).
14	CSET	To CXD1008Q (CXD1008/CXD1009 sync signal).
15	FLCT	To CXD1008Q (control signal).
16	DARE	To CXD1008Q (DA data read enable).
17	SRVS	From CXD1008Q (12.8kHz servo reference signal).
18	C94M	9.408MHz output.
19	PLCK	9.408MHz RF PL playback lock $\pm \Delta$.
20	CRCM	W1+W2+parity CRC monitor in PB mode.
21	SWP	Switching pulse input.
22	DPG	DPG pulse input.
23	SVRF	100/3Hz servo reference signal.
24	RSEL	External RAM selection (L: SRAM, H: DRAM).
25	SBSY	Subcode sync signal.
26	SBDT	Operation mode setting and subdata I/O micrtcomputer interface.
27	EXCK	SBDT I/O clock (from system control).
28	DTC1	SBDT control 1.
29	DTC2	SBDT control 2.
30	LRCK	LR lock (L: L-CH, R: R-CH).
31	WCK	Word clock.
32	EXSY	System sync signal. Master mode: Output, Slave mode: Input.
33	V_{DP}	5V.
34	ATD2	ATF signal. Pilot signal window pulse in REC mode.
35	ATD1	Overall track's tracking information.
36	ATSY	PB ATF signal from CXD1046M.
37	ATS3	On track pilot sampling pulse.
38	ATS2	Adjacent track pilot sampling pulse.
39	ATS1	Adjacent track pilot sampling pulse.
40	RFSF	RF PB signal's envelope detection signal.
41	PHCO	RF PLL's phase comparison signal.
42	TEST	Test terminal. Usually set to low.
43	VCOI	VCO oscillation terminal (input).
44	VCOO	VCO oscillation terminal (output).
45	CKOE	Usually set to low.
46	PBDT	RF PB signal input.
47	XCLR	System clear input. System is cleared when low (during power on reset).

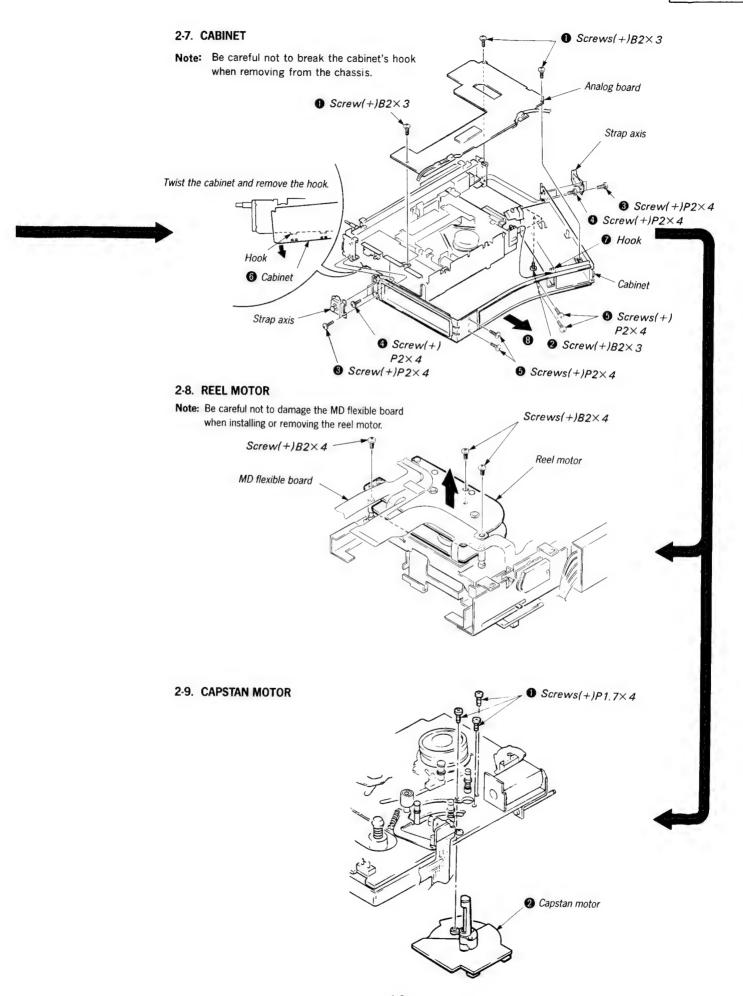
Pin No.	Symbol	Description
48	REDT	RF REC signal output.
49	REPB	REC window pulse.
50	XT1O	18.816MHz crystal oscillator terminal (output).
51	XT1I	18.816MHz crystal oscillator terminal (input).
52	VSS	GND.
53	XEAN	External RAM's external addressing enable.
54	XWE	External RAM WE.
55	XOE	External RAM OE.
56	AD00	External RAM address(LSB).
57	AD01	External RAM address.
58	AD02	External RAM address.
59	AD03	External RAM address.
60	AD04	External RAM address.
61	AD05	External RAM address.
62	AD06	External RAM address.
63	AD07	External RAM address.
64	AD08	External RAM address.
65	AD09	External RAM address.
66	AD10	External RAM address.
67	AD11	External RAM address.
68	AD12	External RAM address.
69	AD13	External RAM address (MSB).
70	D0	External RAM data bus (LSB).
71	D1	External RAM data bus.
72	D2	External RAM data bus.
73	$V_{\scriptscriptstyle DD}$	Power supply (+5V).
74	D3	External RAM data bus.
75	D4	External RAM data bus.
76	D5	External RAM data bus.
77	D6	External RAM data bus.
78	D7	External RAM data bus (MSB).
79	DE	Controls whether the CXD1008Q's data bus is set to the output mode.
80	RW	Identifies whether CXD1008Q reads or writes data.

Pin No.	Symbol	Description
35	STAT	Status data serial input terminal.
36	SBSY	Status data load signal. Shifted status data is loaded into status register at the trailing edge.
37	SRVS	12.8kHz servo reference signal. (Can be changed at 12.8kHz ±12% in variable pitch mode.)
38	ADAE	AD/DA data is input or output from D0 through D7 when is high.
39	FLGC	Forcible error flag, erasure correction inhibit, and muting control signals are input during time sharing.
40	CKRS	Master clock reset signal. Reset when is high.
41	CLKI	Master clock (18.816MHz).
42	Vss	GND.
43	PREN	ECC data input/output request inhibit signal. Request is inhibited when is low.
44	RCPB	Controls whether ECC is encoded (in REC mode) or decoded (in PB mode). Encoded when is high.
45	PRGS	ECC process start signal. Started at the leading edge.
46	C1C2	Controls whether ECC process is related to C1 code or C2 code. C1 code is processed when is high.
47	A4	ECC data location A4 (MSB).
48	A3	ECC data location A3.
49	A2	ECC data location A2.
50	A1	ECC data location A1.
51	A0	ECC data location A0 (LSB).
52	PRGE	Inverted from high to low and vice versa whenever ECC data is processed every code.
53	PTRD	Indicates whether ECC data input and output is requested by error pointer or code data. Requested by error pointer when is high.
54	RW	Indicates whether ECC data input and output is requested by input (read from RAM) or output (write to RAM). Requested by input when is high.
55	XDOE	Controls whether signals at D0 through D7 should be output. Output when is low.
56	D_7	External data bus terminal (MSB).
57	D_6	External data bus terminal (2SB).
58	$V_{\scriptscriptstyle DD}$	Power supply (+5V).
59	D5	External data bus terminal (3SB).
60	D4	External data bus terminal (4SB).
61	D3	External data bus terminal (5SB).
62	D2	External data bus terminal (6SB).
63	D1	External data bus terminal (7SB).
64	D0	External data bus terminal (LSB).

IC530 (CXD1008Q)

Pin No.	Symbol	Description
1	XRST	Reset terminal. Reset when low.
2	TST1	Test terminal. Usually, set to low.
3	PHCO	Phase comparison signal output to generate variable pitch's 256FS (tristate).
4	TST2	Test terminal. Usually set to low.
5	DALF	Selects whether the DADT serial data is set to LSB first or MSB first. Set to LSB first when high.
6	VCOI	VCO input (variable pitch's 256FS). FS's variable range is within reference FS±12%.
7	ADLF	Selects whether the ADDT serial data is set to LSB first or MSB first. Set to LSB first when high.
8	XT2I	Crystal oscillator circuit 2's input (44.1kHz×512=22.5792MHz).
9	XT2O	Crystal oscillator circuit 2's output.
10	V_{ss}	GND (0V).
11	XT3I	Crystal oscillation circuit 3's input (48kHz+512=24.576MHz).
12	XT3O	Crystal oscillator circuit 3's output.
13	AUDR	Selects whether the playback data is audio 16-bit data. The audio 16-bit mode is entered when high. No interpolation (1) is done when low. The PCM 16 bits are divided into high-order 8 bits and low-order 8 bits. Their error flags are then output.
14	MNTG	Indicates that error correction status's monitor data is being output to D7 through D0 when high.
15	LRO1	15BCK-delayed LRCK signal.
16	LRO2	16BCK-delayed LRCK signal.
17	LRO3	Inverted LRO2's H and L signals.
18	DFCK	256FS output terminal. Output when FSEN is high; high impedance when FSEN is low.
19	DIOC	128FS input/output terminal. Output when FSEN is high; input when FSEN is low.
20	DADT	DA serial data output data (playback data in PB mode and REC monitor data in REC mode). L-CH data is input or output from ADDT and DADT when LRCK is low. When it is high, R-CH data is input or output.
21	ERRF	DA serial data output error flag. Indicates that there is an error when high.
22	ADDT	AD serial data input (record data input). When LRCK is low, L-CH data is input or output from ADDT and DADAT. When it is high, R-CH data is input or output.
23	XBCK	Inverted "H"/"L" BCK signal.
24	BCK	64Fs input/output terminal. Output when FSEN is high; input when FSEN is low.
25	WCK	2F _s input/output terminal. Output when FSEN is high; input when FSEN is low.
26	$V_{\scriptscriptstyle DD}$	Power supply +5V.
27	LRCK	F _s input/output terminal. Output when FSEN is high; input when FSEN is low.
28	FSEN	Selects whether DFCK, DIOC, BCK, WCK, and LRCK signals should be output. Output when it is high.
29	MUTG	PB/REC data muting control signal. Mute on when it is high; mute off when it is low.
30	PIDN	Variable pitch control signal. Pitch is descreased 0.1% at every leading edge (F_s is decreased 0.1% as compared with reference).
31	PIUP	Variable pitch control signal. Pitch is increased 0.1% at every leading edge (F _s is increased 0.1% as compared with reference).
32	CTL2	Status data input control signal. Status data is shifted and input when CTL2 and CTL1 are high.
33	CTL1	Status data input control signal. Status data is shifted and input when CTL2 and CTL1 are high.
34	EXCK	Status data shift input clock. Status data is shifted and input at leading edge.





SECTION 3 MECHANICAL ADJUSTMENTS

Preparations

1. Perform the adjustment in the order described.

2. Use the following alignment tapes:

TY-7111 (8-909-812-00): Level TY-7251 (8-909-813-00): Tracking TY-7551 (8-909-814-00): Function

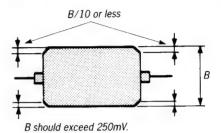
TY-30B (8-892-358-00): Blank Use the following torque meters:

TW-7131 (8-909-708-71): FWD

TW-7231B (8-909-708-76): FF/REW

 Check that the DPG adjustment and tape path fineadjustment satisfy the specification when replacing the drum unit. If not, adjust them.

For the tape path fine-adjustment, the RF signal waveform at TP521 should be as shown below.



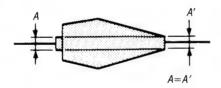
T2 Guide Adjustment

Adjustment:

- 1. Connect CH-1 of an oscilloscope to TP521 (RF) and CH-2 to TP501 (SWP).
- 2. Insert test tape TY-7251 and put the set into TEST mode 1.

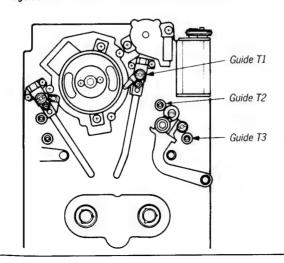
Press the FF button (to enter the $\times 1.5$ mode).

3. Raise guide T1 so that the RF signal waveform is as shown below.



- 4. Raise guide T2 and align it with the lower edge of the
- 5. Lower guide T1 so that the RF signal waveform is normal
- 6. Check that the tape is aligned with the lower edge of guide T3.

Adjustment Point: Mechanism assembly



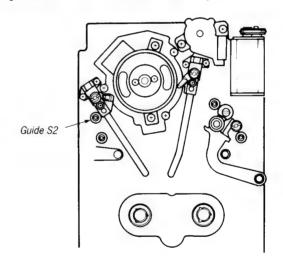
S2 Guide Adjustment

Adjustment:

- 1. Turn on the POWER switch, insert blank tape TY-30B, and put the set into the PLAY (▶) mode.
- Raise guide S2 and align it with the lower edge of the tape.

Note: Check that no curl occurs at guide S2 in the REW (◄◄) mode.

Adjustment Point: Mechanism assembly

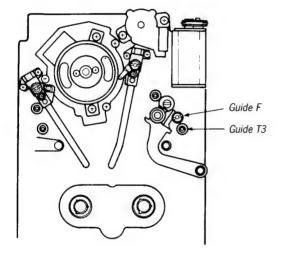


F Guide Adjustment

Adjustment:

- 1. Turn on the POWER switch, insert blank tape TY-30B, and put the set into the PLAY (▶) mode.
- Align guide F with the lower edge of the tape.
 Note: Check that the tape is aligned with the lower edge of guide T3 and is not curled.

Adjustment: Mechanism assembly

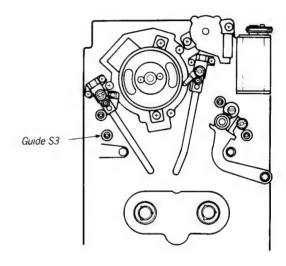


S3 Guide Adjustment

Adjustment:

- 1. Turn on the POWER switch, insert blank tape TY-30B, and put the set into the PLAY (▶) mode.
- Align guide S3 with the lower edge of the tape.
 Note: Check that the tape is aligned with the lower edge of guide S3 and is not curled.

Adjustment: Mechanism assembly

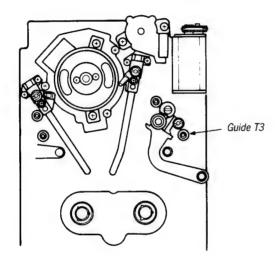


T3 Guide Adjustment

Adjustment:

- 1. Turn on the POWER switch, insert blank tape TY-30B, and put the set into the PLAY (▶) mode.
- Align guide T3 with the lower edge of the tape.
 Note: Check that the tape is aligned with the lower edge of guide T3 and is not curled.

Adjustment Point: Mechanism assembly



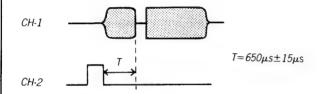
DPG Adjustment

Be sure to make this adjustment when replacing the drum unit.

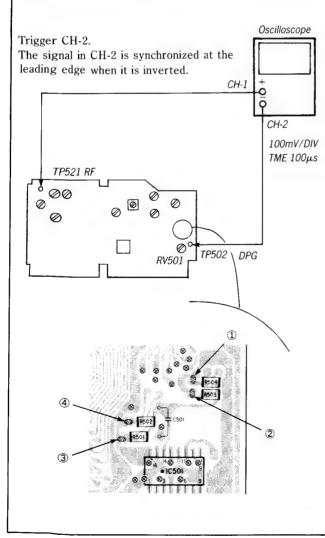
Adjustment:

- 1. Put the set into TEST mode 1.
- 2. Insert test tape TY-7251 and put the set into the loading mode (press the COUNTER button).
- 3. Press the FF button (to enter the $\times 1.5$ mode).
- 4. Adjust RV501 so that the waveform on the oscilloscope satisfies the specification.
- 5. When adjustment cannot be completely made using a semi-fixed resistor, remove the taps in the order of 1 through 4 until the specification is satisfied.

Specification:



Adjustment Point: Main board

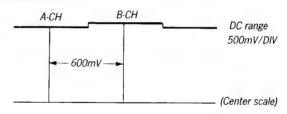


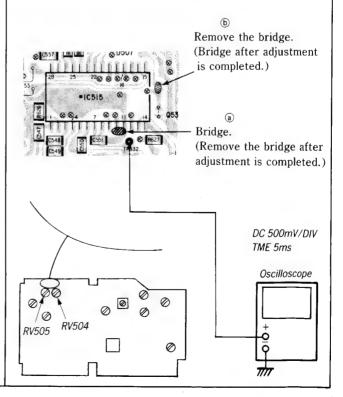
ATF Pilot Adjustment

Adjustment:

- 1. Put the set into TEST mode 2.
- 2. Insert test tape TY-7111 and put the set into the loading mode (press the COUNTER button).
- 3. Put the set into the STOP mode and adjust so that the luminescent spot on an oscilloscope at TP532 is located on the scale center.
 - (Never align the spot with the center when the input is to GND.)
- 4. Turn all POWER OFF and bridge pins (1) and (1) of IC515 (portion (a)) or remove the bridge in portion (b).
- 5. Turn on the POWER and put the set into TEST mode 2. Change the mode from TEST 2 to PLAY and adjust RV504 (A-CH) and RV505 (B-CH) so that the waveform on the oscilloscope satisfies the specification. (The waveform deflects vertically from the 600mV ref-
- erence.)
- After adjustment is completed by restor bridge of IC515.

Specification:



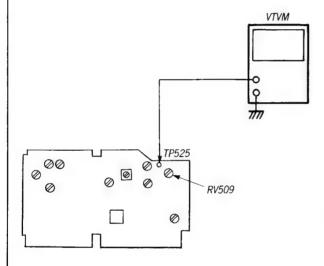


VCO Free-Run Voltage Adjustment

Adjustment:

- 1. Put the set into TEST mode 2.
- 2. Insert test tape TY-30B (blank tape) and put the set into the loading mode (press the COUNTER button). ton).
- 3. Adjust RV509 so that the voltage at TP525 satisfies the specification in the STOP mode.

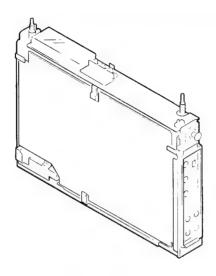
Specification: -3.1 to -3.3 V **Adjustment Point:** Main board



SECTION 4 ELECTRICAL ADJUSTMENTS

FWD Back Tension Adjustment

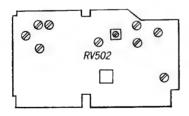
The FWD back tension varies depending on the set's position. Be sure to adjust the set positioned as shown below.



Adjustment:

- 1. Put the set into TEST mode 2.
- 2. Insert FWD torque meter TW-7131 and put the set into the loading mode (press thge COUNTER button).
- Put the set into the PLAY mode and adjust RV502 so that the back tension (at supply side) satisfies the specification.

Specification: 4 to 5 g·cm **Adjustment Point:** Main board



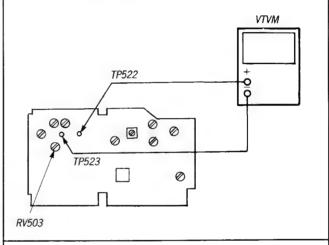
ATF Tracking Voltage Adjustment

Adjustment:

- 1. Put the set into TEST mode 2.
- 2. Insert test tape TY-30B (blank tape) and put the set into the loading mode (press the COUNTER button).
- 3. Put the set into the STOP mode and adjust RV503 so that the potential difference at TP522 and TP523 satisfies the specification.

Specification: -20 to 20mV

Adjustment Point: Main board

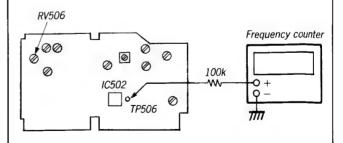


Capstan Speed Adjustment

Adjustment:

- 1. Put the set into TEST mode 2.
- 2. Insert test tape TY-30B (blank tape) and put the set into the loading mode (press the COUNTER button).
- Put the set into the PLAY mode and adjust RV506 so that the frequency at TP506 satisfies the specification.

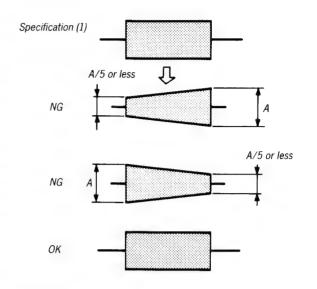
Specification: 674±1Hz



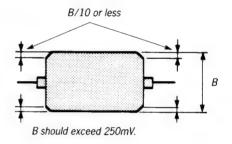
Tape Path Fine-Adjustment

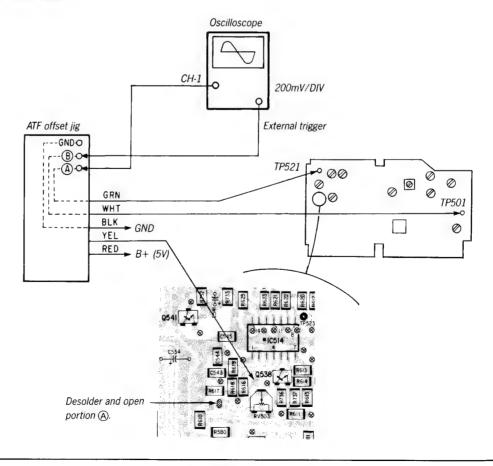
Adjustment:

- Put the set into TEST mode 1 (turn off the POWER switch).
- 2. Open the pattern of RV503 (in portion (a) of the figure) and connect the ATF offset jig as shown in the figure.
- 3. Turn on the POWER switch, insert test tape TY-7251, and put the set into the loading mode (press the COUNTER button).
- 4. Press the FF button (to enter the $\times 1.5$ mode).
- Turn the ATF offset jig volume control so that the RF signal waveform is maximized and stabilized.
 Adjust guides S1 and T1 so that the RF signal waveform is almost square.
- 6. Finely adjust S1 and T1 so that the RF signal waveform is smaller but the same shape when the offset jig volume control is turned. Check that specification (1) is satisfied.
 - (Adjust guide S1 and guide T1 for the left of the waveform and for the right of it.)
- 7. After adjustment is completed, remove the ATF offset jig, bridge the pattern of RV503, and check that the RF signal waveform satisfies specification (2). If the specification is not satisfied, repeat Steps 2 through 6.



Specification (2)

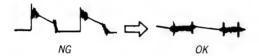




VCO Adjustment

Adjustment:

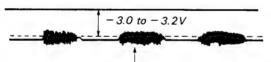
- 1. Put the set into TEST mode 2.
- Insert a music tape and put the set into the loading mode (press the COUNTER button).
- 3. Open the RV710's tap (portion (a) in the figure) and put the set into the PLAY mode.
- Adjust RV507 so that the waveform at TP526 is as shown below.



5. Adjust RV508 so that the waveform at TP526 is as shown below.



- 6. Put the set into CUE ($\times 2.5$) and REVIEW ($-\times 2.5$) modes and finely adjust RV507 so that the waveform at TP526 is the same as that in Step 4.
- Put the set into the STOP mode and turn off all POW-ER.
- 8. Bridge the RV710's tap and turn on the POWER.
- Put the set into the PLAY mode and adjust L502 so that the DC potential (containing an RF signal) at TP526 satisfies the specification.

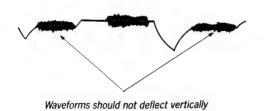


Center voltage of amplitude at portion containing RF signal

 Put the set into the CUE (×2.5) mode and adjust RV509 so that the waveform at TP526 satisfies the specification.

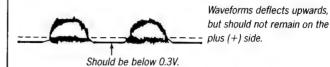


11. Put the set into the CUE (\times 16) and REVIEW ($-\times$ 16) modes. Adjust RV507 so that the waveform at TP526 satisfies the specification.

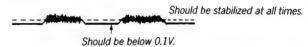


and should be stabilized.

- To enter the CUE (\times 16) and REVIEW ($-\times$ 16) modes, press the PLAY button while pressing the FF or REW button in the PLAY mode.
- 12. Put the set into the REVIEW $(-\times 2.5)$ mode and check the waveform at TP526.



 Put the set into the PLAY mode and check the waveform at TP526.

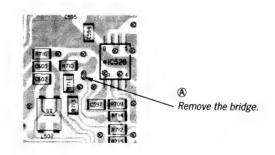


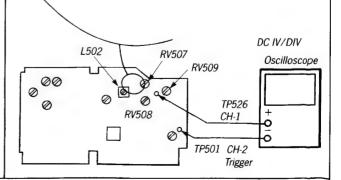
 Put the set into FF-AMS mode and check the waveform at TP526.



Voltage deflects to the plus (+) side.

- 15. Put the set into the STOP mode then the REW-AMS mode and check that the same waveform as in Step 14 is output.
- 16. If the waveforms in Steps 14 and 15 are NG, readjust RV507 and recheck Steps 11 through 15.





Playback Equalizer Adjustment

(Check that all adjustments prior to this adjustment are normal before making the Playback Equalizer Adjustment.)

Condition: Error rate counter setting

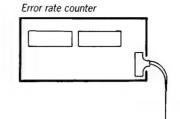
Mode PCM-C1
Sampling Fast
Input Front

Adjustment:

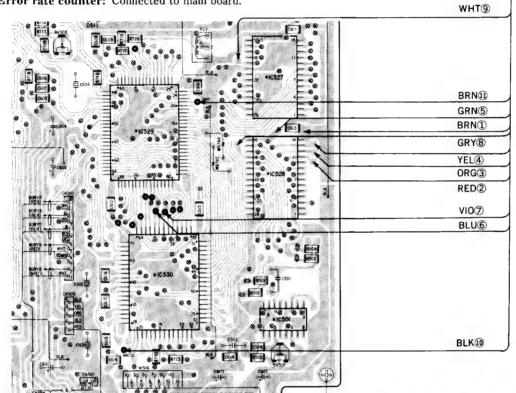
- Insert test tape TY-7551 and put the set into the loading mode.
- 2. Put the set into the PLAY mode and measure the error rate.
- 3. Adjust RV1 and RV2 if the error rate does not satisfy the specification.

Specification: 5×10^{-2} or less

Error rate counter: Connected to main board.



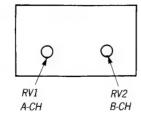


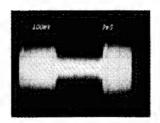


When there is no error rate counter, adjust as follows:

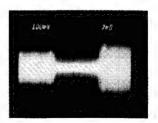
- Insert test tape TY-7551 and put the set into the loading mode
- Adjust RV1 and RV2 so that the noise level of the waveform (containing no RF signal) at TP521 is between the maximum and minimum.

Adjustment Point: RF board





Noise is maximized.



Noise is minimized.

MIC Amplifier Offset Adjustment

Condition: REC LEVEL .. MIN

VOLUME MIN

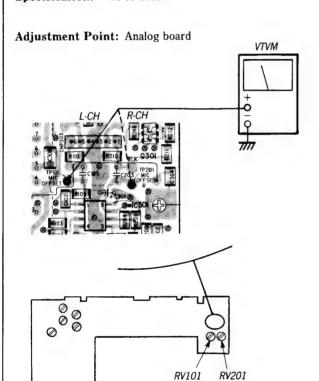
Adjustment:

1. Insert test tape TY-30B (blank tape) and put the set into the loading mode.

2. Press the REC button, put the set into the REC monitor mode, and terminate the MIC input in 300 ohms.

3. Set the MIC ATT to 0dB and adjust RV101 and RV201 so that the voltage at TP101 (L-CH) and TP201 (R-CH) is 0V.

Specificaiton: -10 to 10mV



AD Level Adjustment

Setting: Oscillator VTVM Oscilloscope LINE IN LINE OUT 1kHz, -10dB

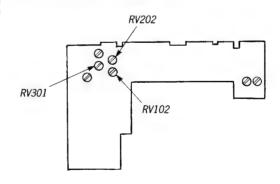
Condition: REC LEVEL .. MAX VOLUME MIN

Adjustment:

- 1. Insert test tape TY-30B (blank tape) and put the set into the loading mode.
- Set the REC LEVEL control to MAX and supply a 1kHz signal (-10dB) to the LINE IN connector in channels L and R to enter the REC mode.
- 3. Adjust RV301 so that the L-CH LINE OUT level satisfies the specification.
- Adjust RV102 so that no distortion occurs in the waveform.
- Adjust RV202 so that no distortion occurs in the R-CH LINE OUT waverform. Check the waveform level.
- 6. When the R-CH level exceeds 7.3dB, readjust RV301 so that the L-CH level is 6.5dB. Next, adjust the waveform using RV102 and RV202.

Specification: 7.0 to 7.2dB

Adjustment Point: Analog board

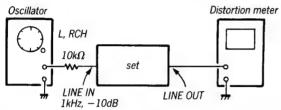


AD Distortion Factor Adjustment

Condition: REC LEVEL MAX

VOLUME MIN 20kHz LPF ON

Setting:

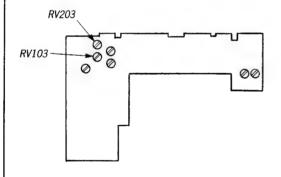


Adjustment:

- Insert test tape TY-30B (blank tape) and put the set into the loading mode.
- Set the REC LEVEL control to MAX and supply a 1kHz signal (-10dB) to the LINE IN connector in channels L and R to enter the REC mode.
- Terminate the R-CH LINE IN connector in 10k ohms for L-CH, and the L-CH LINE IN connector in 10k ohms for R-CH.
- 4. Turn RV103 and RV203 counterclockwise so that the LINE OUT distortion factor is minimized.

Specification: 0.008% or less

Adjustment Point: Analog board

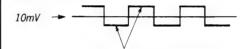


AD Offset Adjustment

Adjustment:

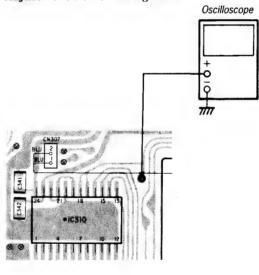
- 1. Insert test tape TY-30B (blank tape) and put the set into the loading mode.
- Set the REC LEVEL control to MIN and put the set into the REC mode.
- Terminate the LINE IN connector in both channels in 10k ohms.
- 4. Adjust RV102 and RV202 so that the output at pin (17) of IC310 satisfies the specification.
- 5. Measure the distortion factor in the same manner as in the AD Distortion Factor Adjustment.
- Repeat the AD Distortion Factor Adjustment if the specification is not satisfied.

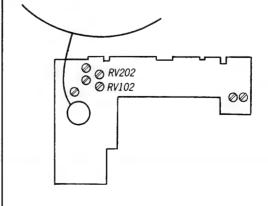
Specification:



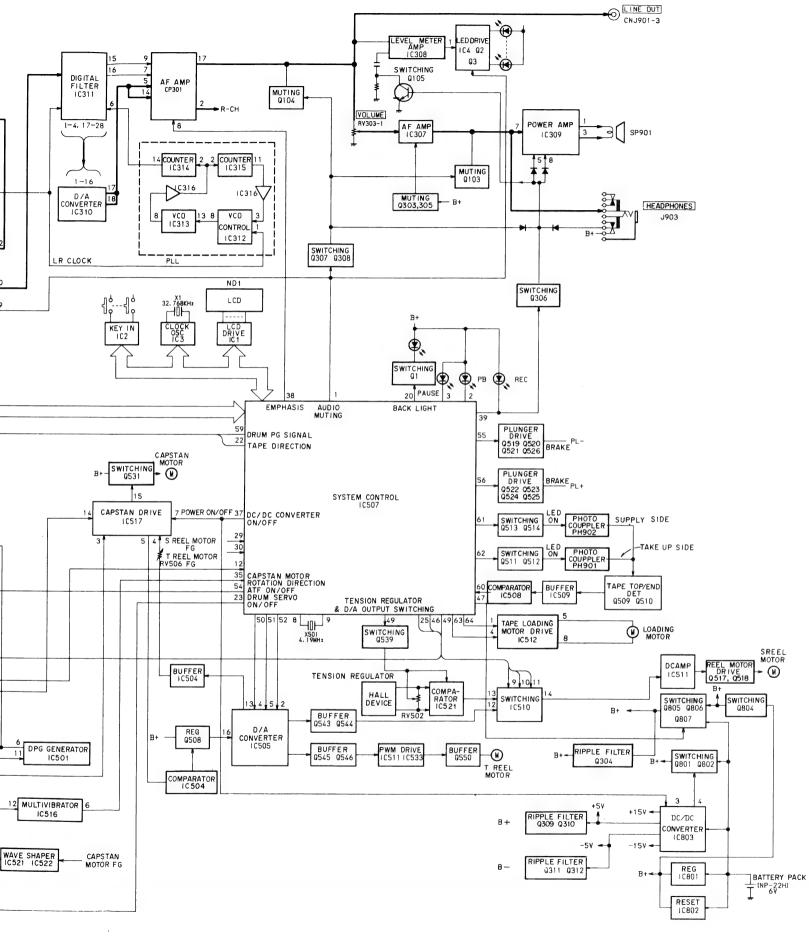
L and R are output alternately. 10 \pm 10mV (in channels L and R) 0.0008% or less distortion factor

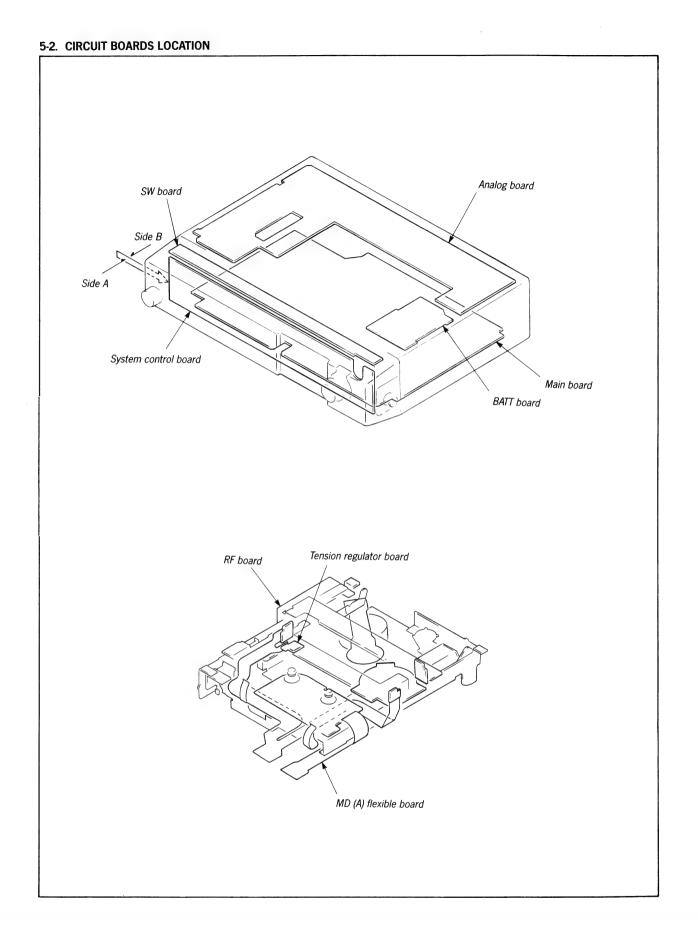
Adjustment Point: Analog board





-31-



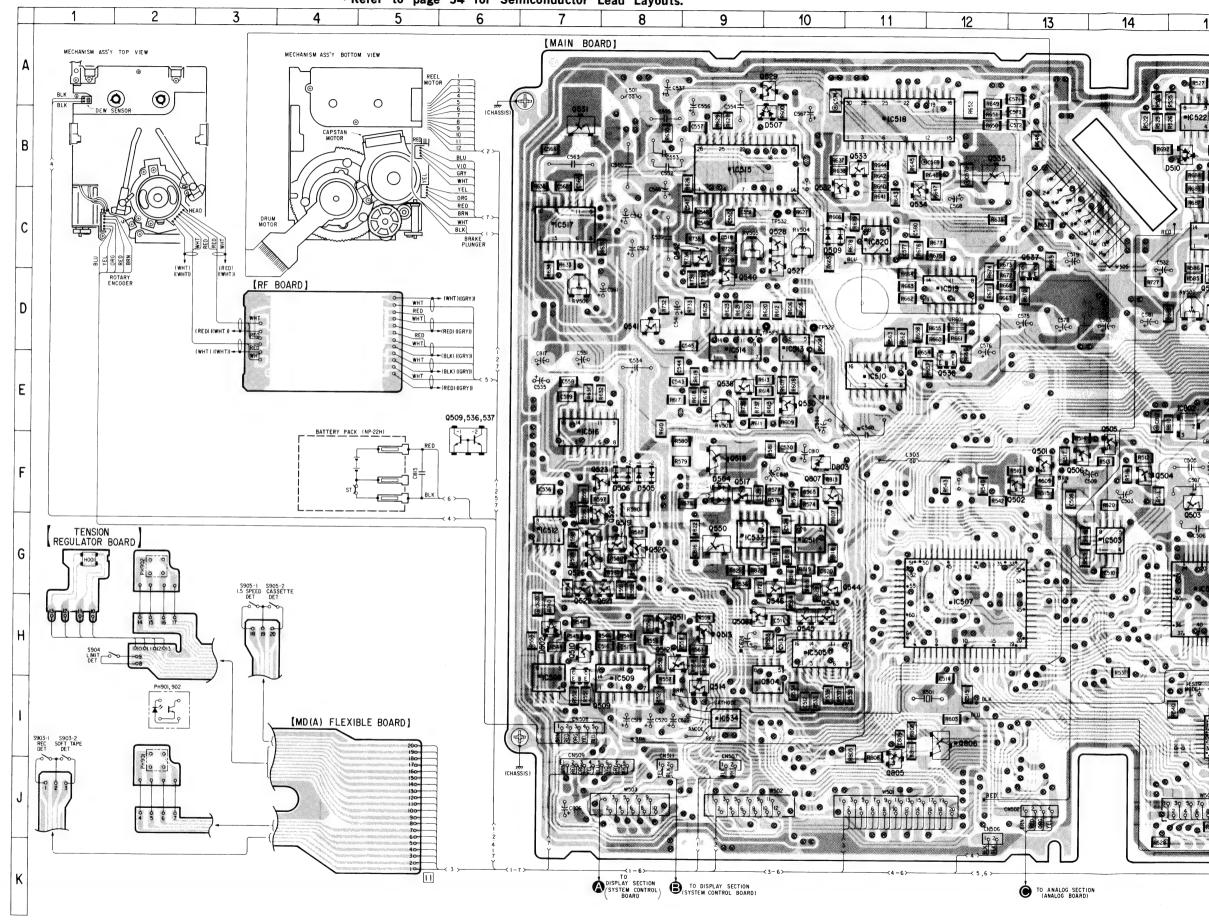


· Refer to page 40 for Note.

• Refer to page 54 for Semiconductor Lead Layouts.

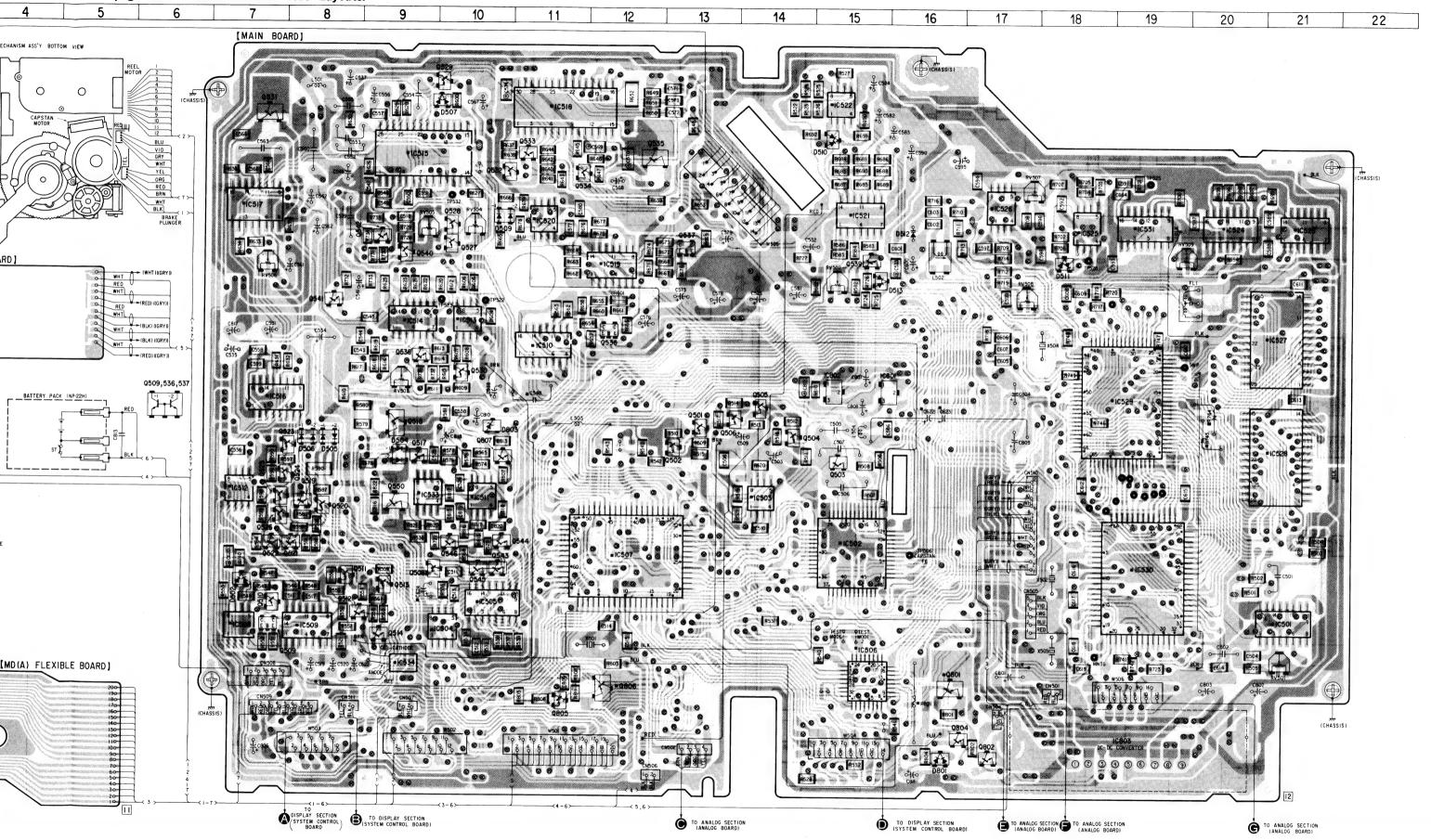
Semiconductor Location

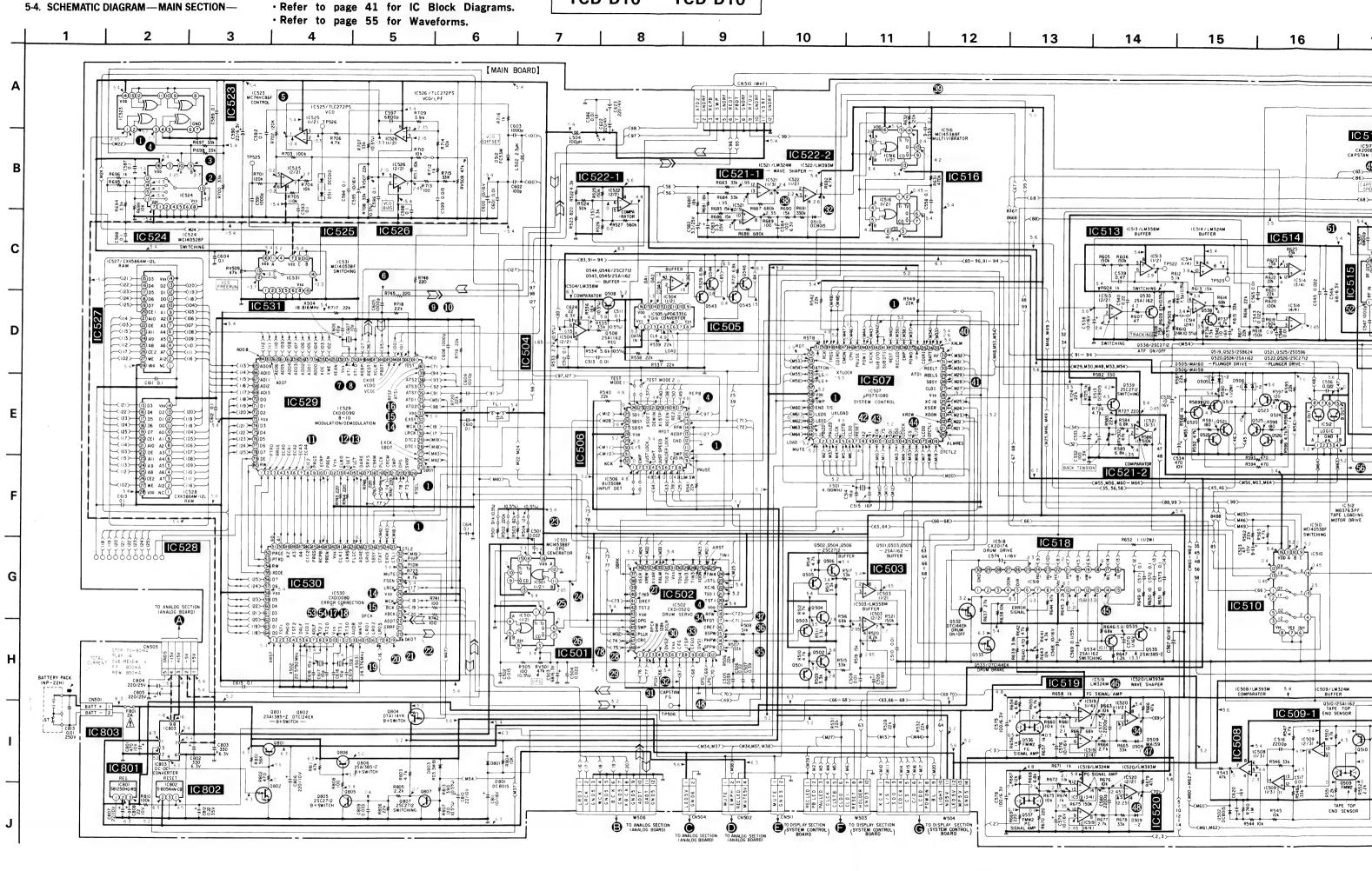
Ref. No.	Location	Ref. No.	Location
D502	H-7	Q501	F-13
D504	F-9	Q502	F-13
D505	F-8	Q503	F-15
D506	F-8	Q504	F-14
D507	B-10	Q505	E-14
D509	C-10	Q506	F-13
D510	B-15	Q508	H-9
D511	D-18	Q509	1-8
D512	C-16	Q510	H-7
D513	D-16	Q511	H-9
D801	J-16	Q512	H-8
D803	F-10	Q513	H-9
		Q514	1-9
IC501	H-21	Q517	F-9
IC502	G-15	Q518	F-9
IC503	G-14	Q519	G-8
IC504	I-10	0520	G-8
IC505	H-10	Q520 Q521	H-8
IC506	1-15	Q521 Q522	H-7
IC507	H-12	Q522 Q523	F-8
IC507	1.7	Q523 Q524	G-8
	1	11 -	l i
IC509	I-8	Q525	F-7
IC510	E-11	Q526	G-7
IC511	G-10	Q527	C-10
IC512	G-7	Q528	C-10
IC513	D-10	Q529	A-10
IC514	D-9	Q530	E-10
IC515	B-9	Q531	B-7
IC516	E-7	Q532	B-10
IC517	C-7	Q533	B-11
IC518	B-11	Q534	C-11
IC519	D-12	Q535	B-12
IC520	C-11	Q536	E-12
IC521	C-15	Q537	C-13
IC522	B-15	Q538	E-9
IC523	C-21	Q539	D-15
IC524	C-20	Q540	D-9
IC525	C-18	Q541	D-8
IC526	C-17	Q542	C-8
IC527	E-21	Q543	H-10
IC528	F-21	Q544	G-11
IC529	E-19	Q545	H-10
IC530	H-19	Q546	H-10
IC531	C-19	Q550	G-9
IC533	G-9	Q801	I-16
IC534	1-9	Q802	J-17
IC801	E-15	Q804	J-16
IC802	E-15	Q805	J-11
IC803	J-19	Q806	I-12
		Q807	F-10
PH901	J-2	•	
PH902	G-2		



TCD-D10 TCD-D10

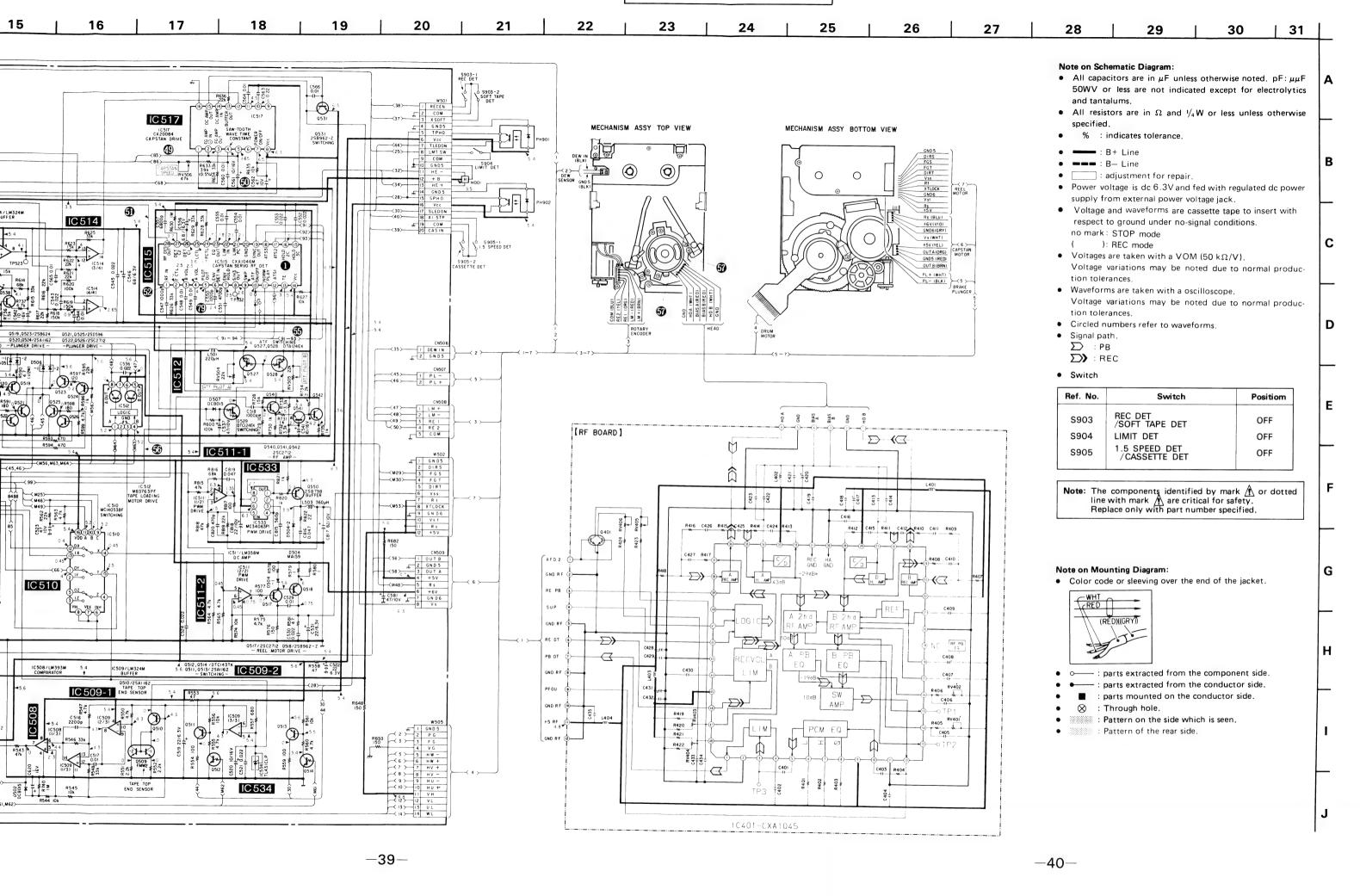
- · Refer to page 33 for Circuit Boards Location.
- · Refer to page 40 for Note.
- · Refer to page 54 for Semiconductor Lead Layouts.



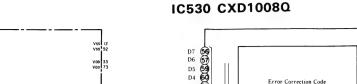


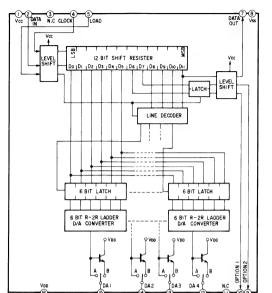
TCD-D10

TCD-D10

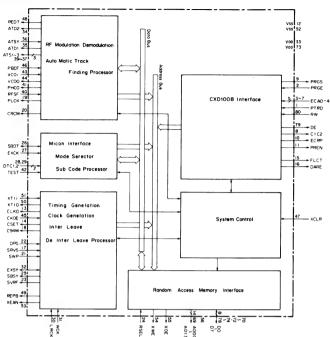


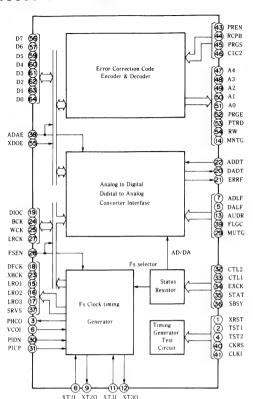
5-5. PRINTED WIRI

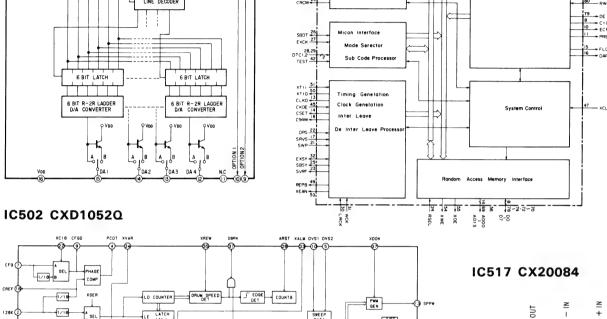




IC505 μPD6335G





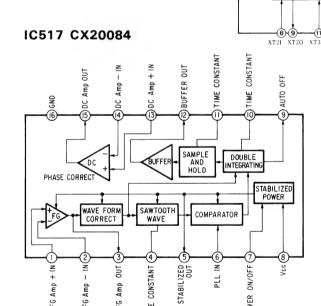


JUST LOCK DET

ADD

PWILL GEN

IC528 CXD1009Q

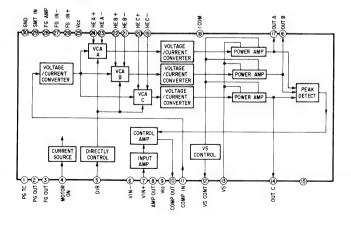


IC518 CX20174

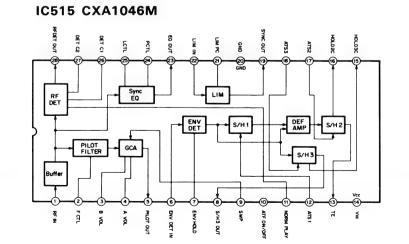
RF RFEX

SWP RFW GEN

- PPULL



1/8 1/2 1/4



• Color code or sleeving over the end of the jacket.

Note on Mounting Diagram:

- o---: parts extracted from the component side.
- e---: parts extracted from the conductor side.
- : parts mounted on the conductor side.
- Pattern on the side which is seen.
- Pattern of the rear side.
- Chip components extracted from the rear side.

Note on Schematic Diagram:

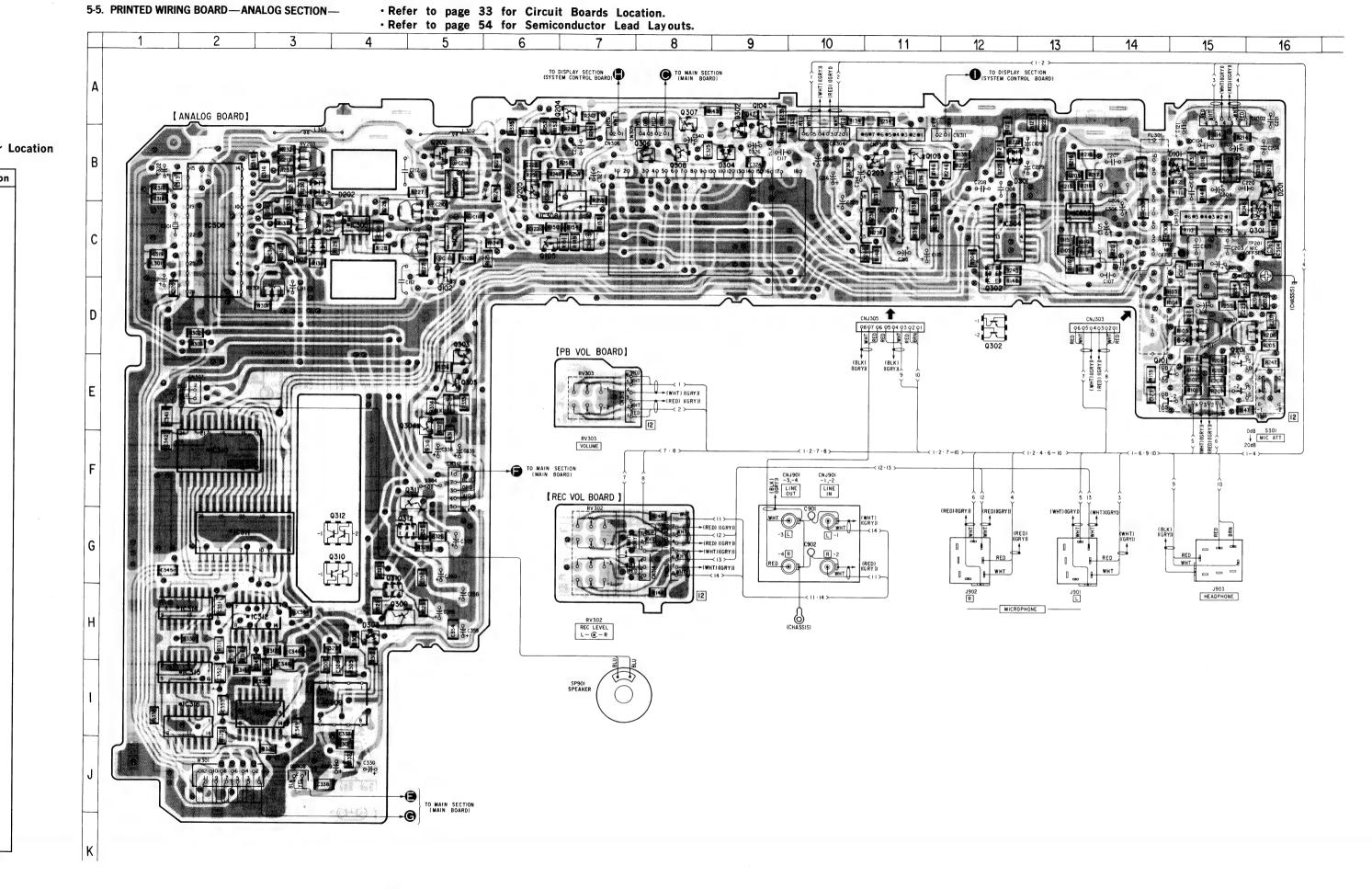
- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- %: indicates tolerance.
- : B+ Line • === : B- Line
- adjustment for repair. • Power voltage is dc 6.3V and fed with regulated dc power
- supply from external power voltage jack.
- Voltage and waveforms are cassette tape to insert with respect to ground under no-signal conditions. no mark: STOP mode
 -): REC mode
- Voltages are taken with a VOM (50 $k\Omega/V$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- · Circled numbers refer to waveforms.
- Signal path. ∑ : PB
- **∑>>** : REC
- Switch

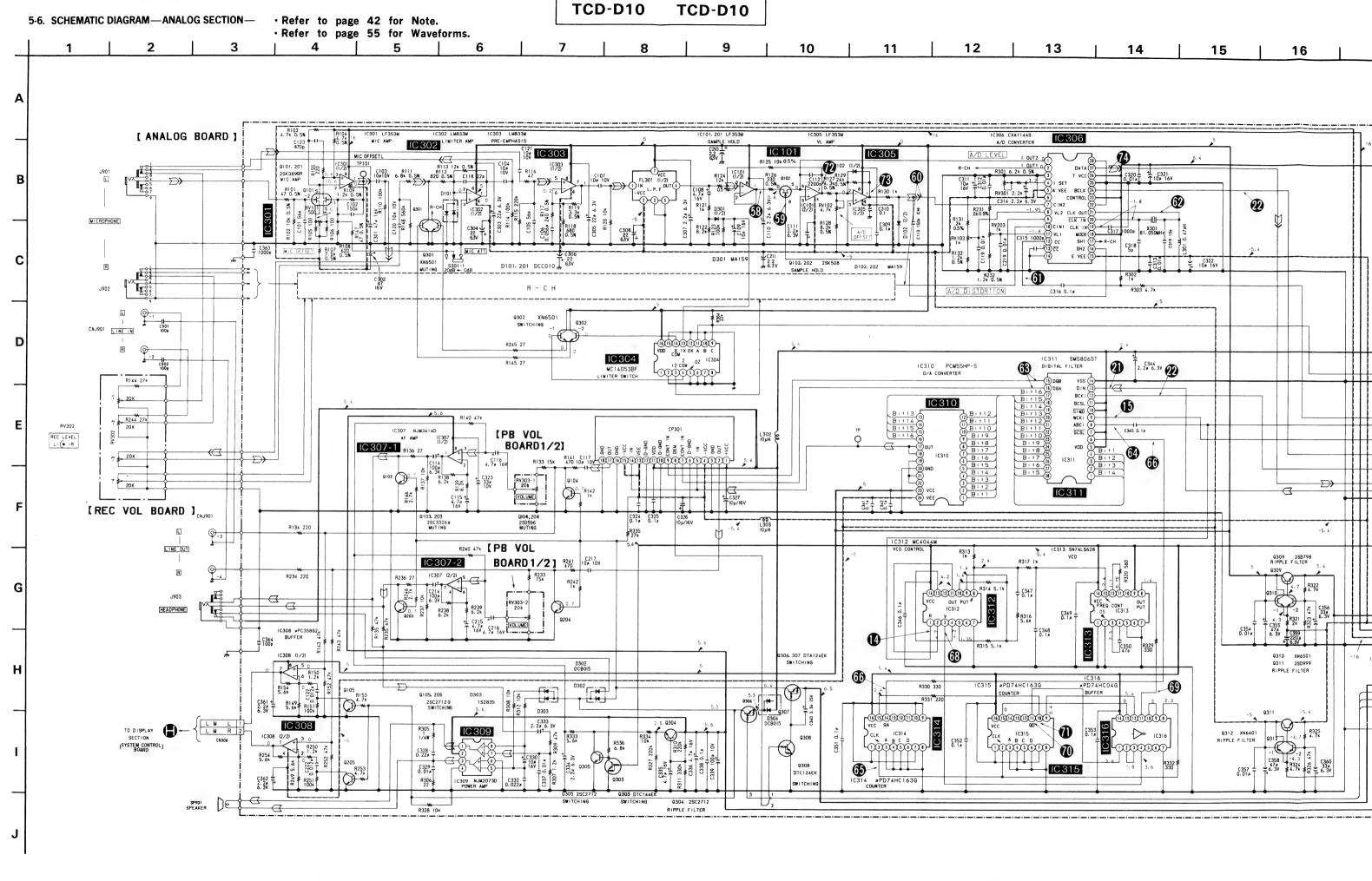
Ref. No.	Switch	Position
S301	MIC ATT	OdB

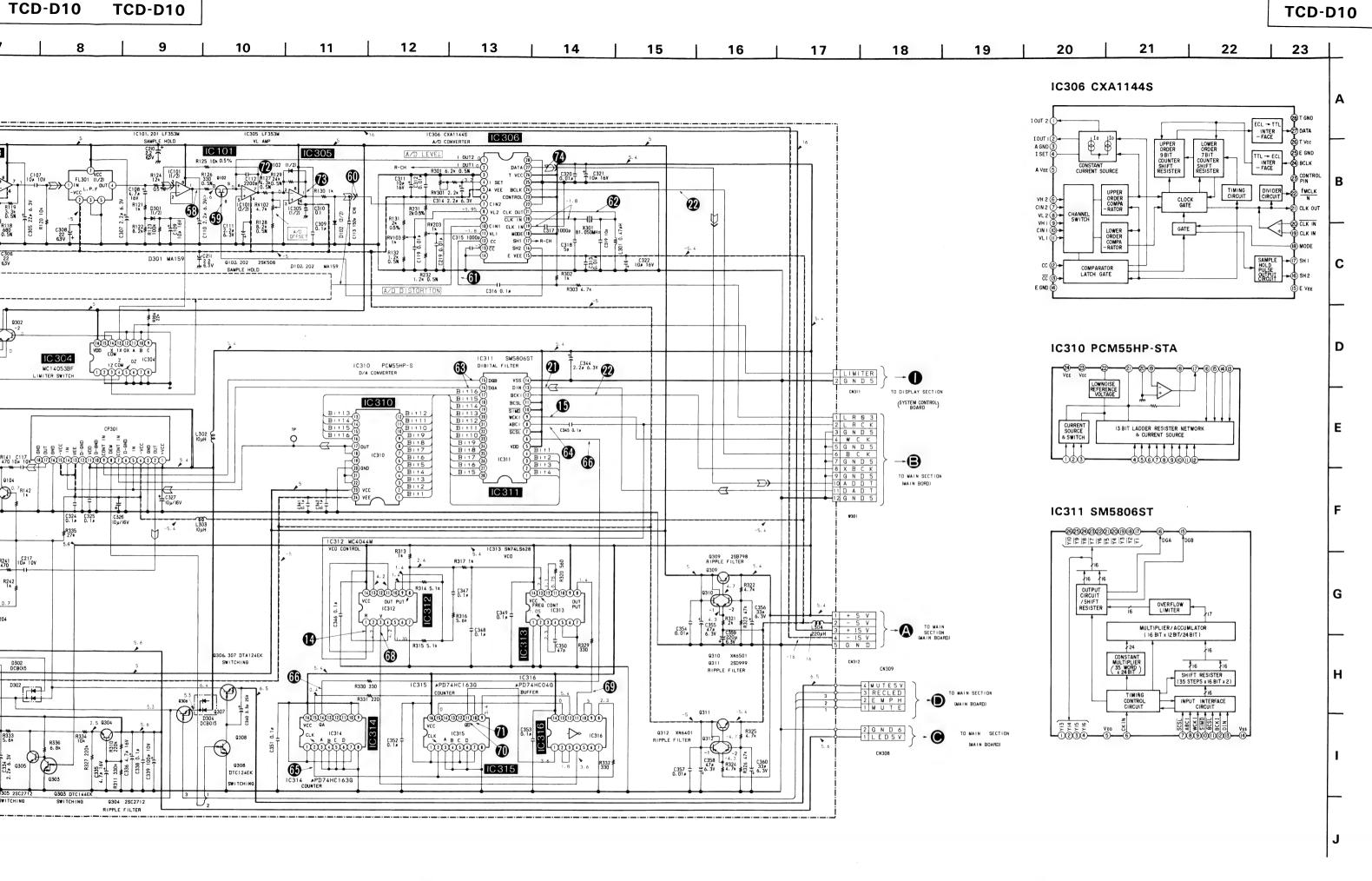
atio

Ref. No.	Location
D101	B-15
D102	C-3
D201	B-16
D202	B-4
D301	B-13
D302	A-9
D303	H-4
D304	B-9
IC101	C-5
IC201	B-5
IC301	C-16
IC302	B-15
IC303	C-13
IC304	C-12
IC305	C-4
IC306	C-2
IC307	C-11
IC308	C-6
IC309	I-4
IC310	F-2
IC311	G-2
IC312	H-3
IC313	I-3
IC314	I-3
IC315	I-2
IC316	I-2
Q101	E-14
Q102	D-5
Q103	B-11
Q104	A-9
Q105	C-6
Q201	D-15
Q202	B-5
Q203	B-11
Q204	A-6
Q205	B-6
Q301	C-16
Q302	D-12
Q303	D-5
Q304	E-5
Q305	E-5
Q306	B-8
Q307	A-8
Q308	B-8
Q309	H-4
Q310	G-4
Q311	F-5
Q312	G-4

on	1
	(
	1
	E
	1
	(
	ł
	1
	ŀ

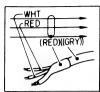






Note on Mounting Diagram:

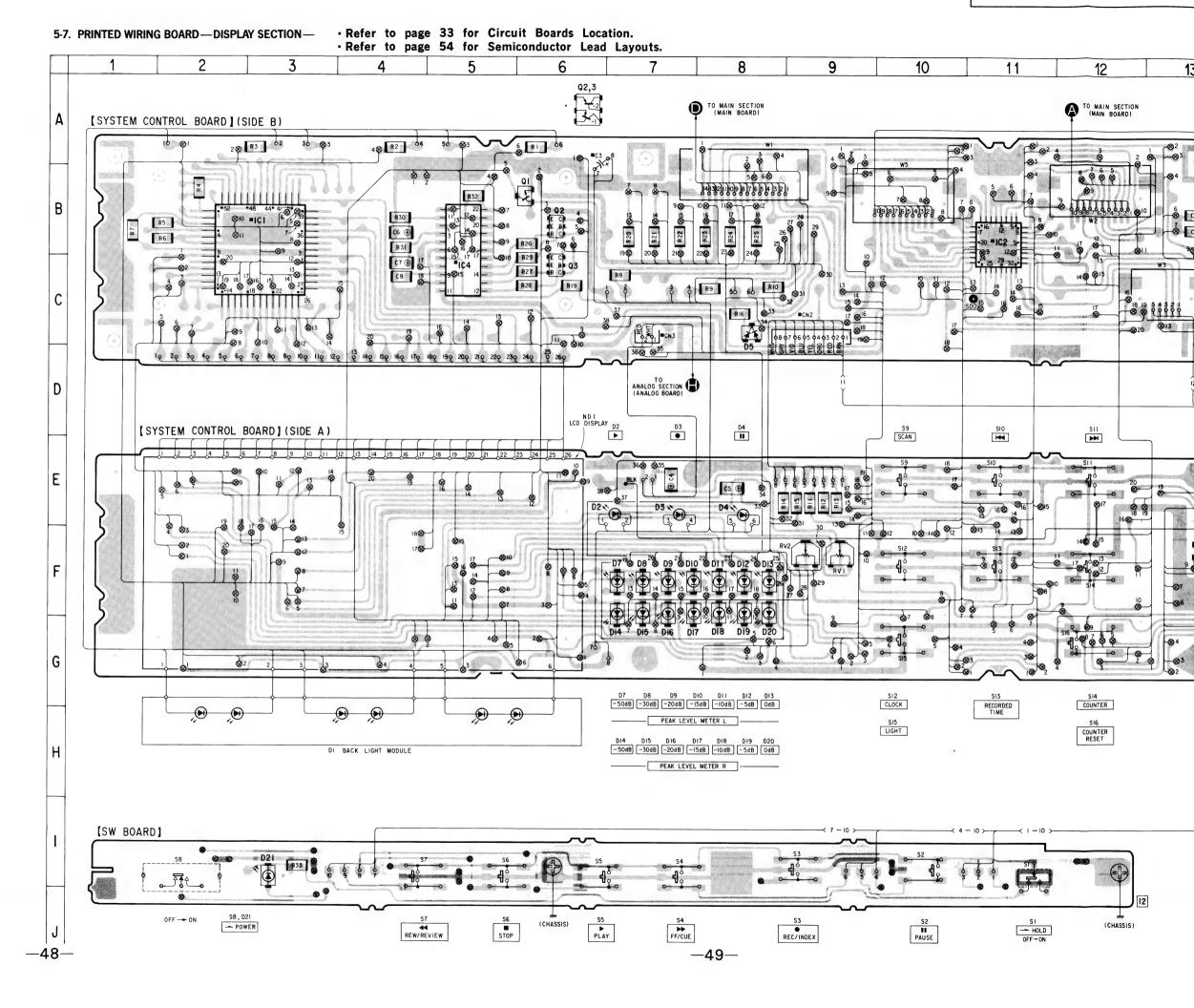
• Color code or sleeving over the end of the jacket.



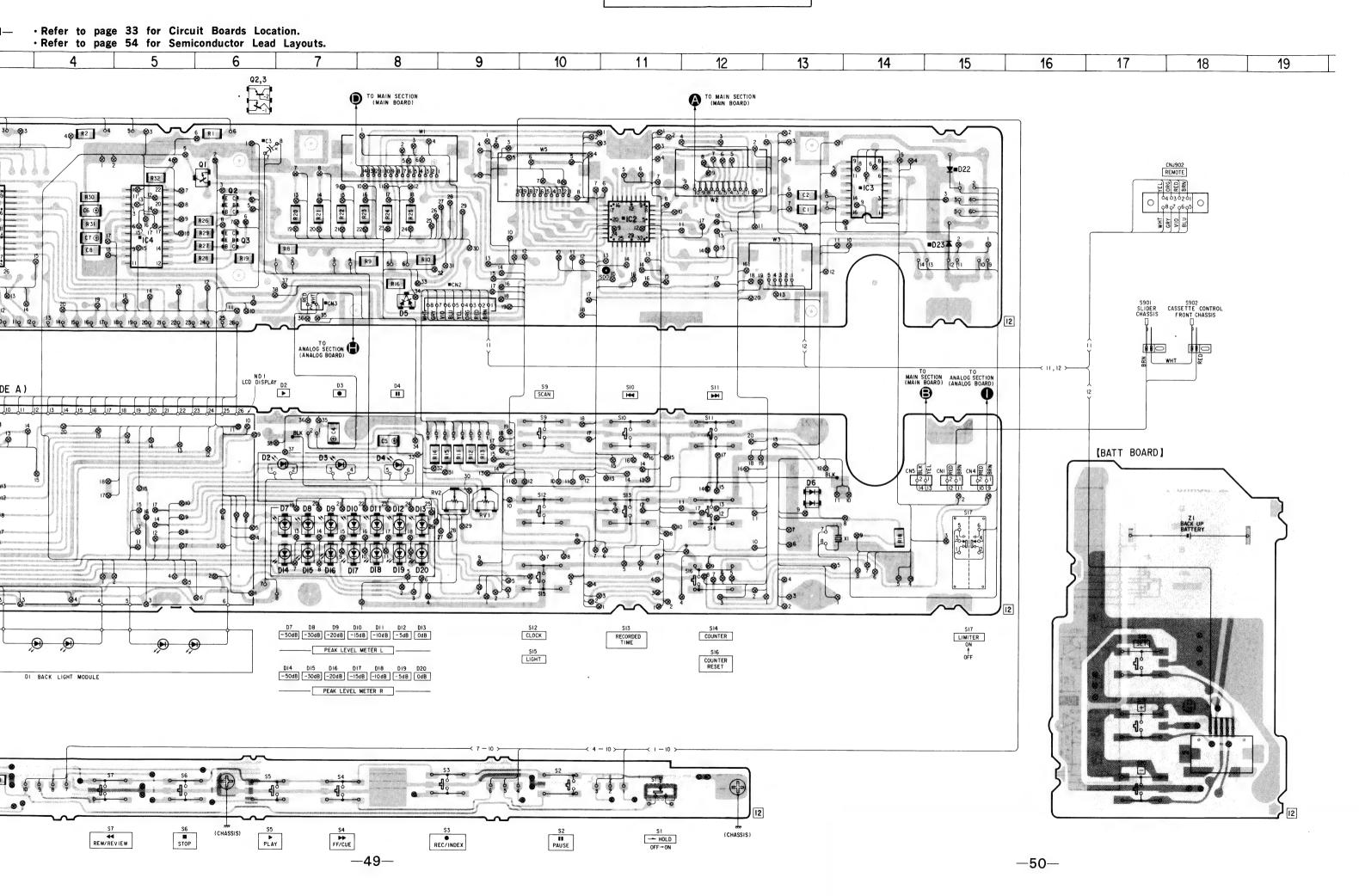
- o---: parts extracted from the component side.
- parts mounted on the conductor side.
- S : Through hole.
- : Pattern on the side which is seen.
- Pattern of the rear side.

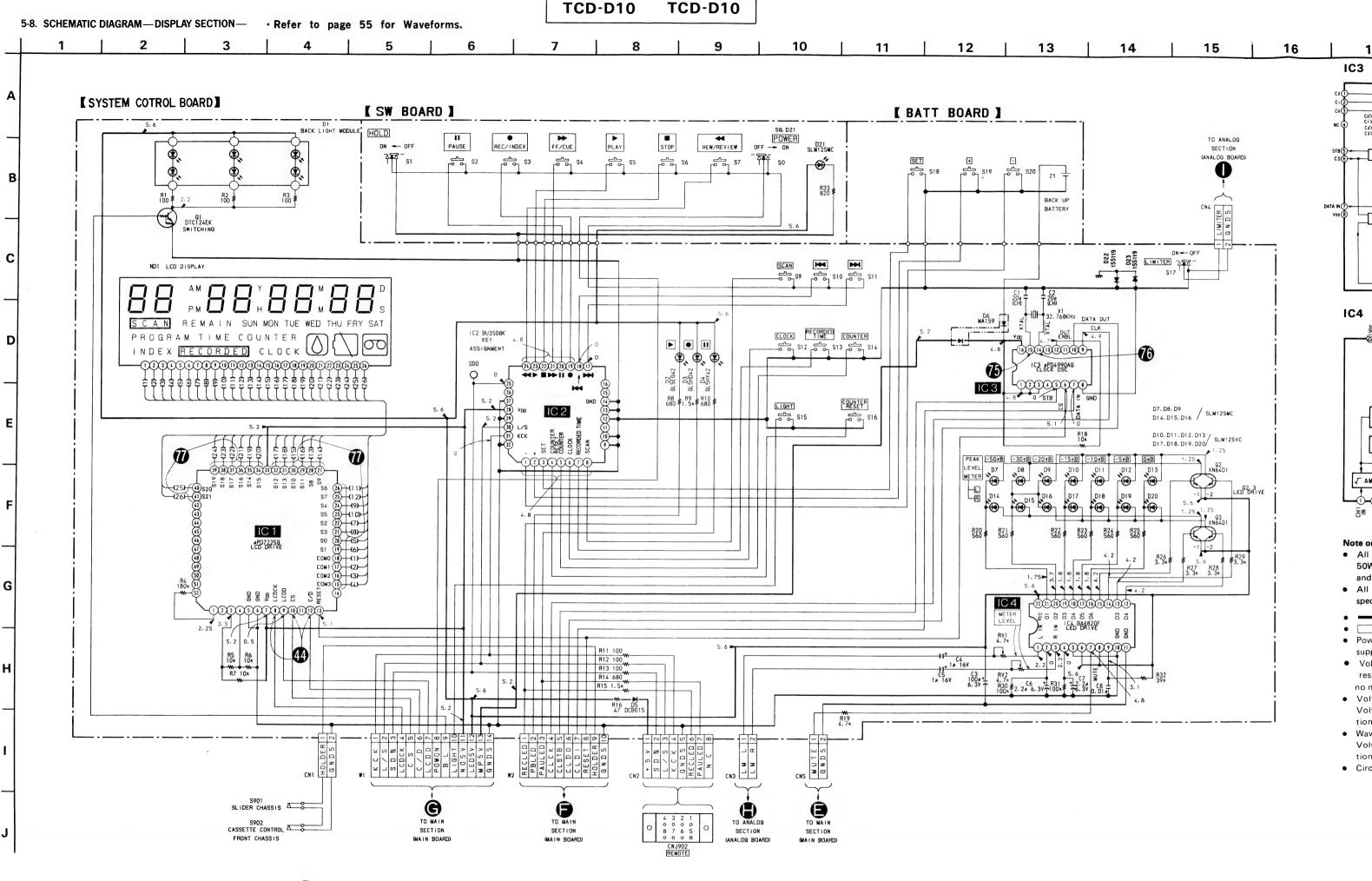
Semiconductor Location

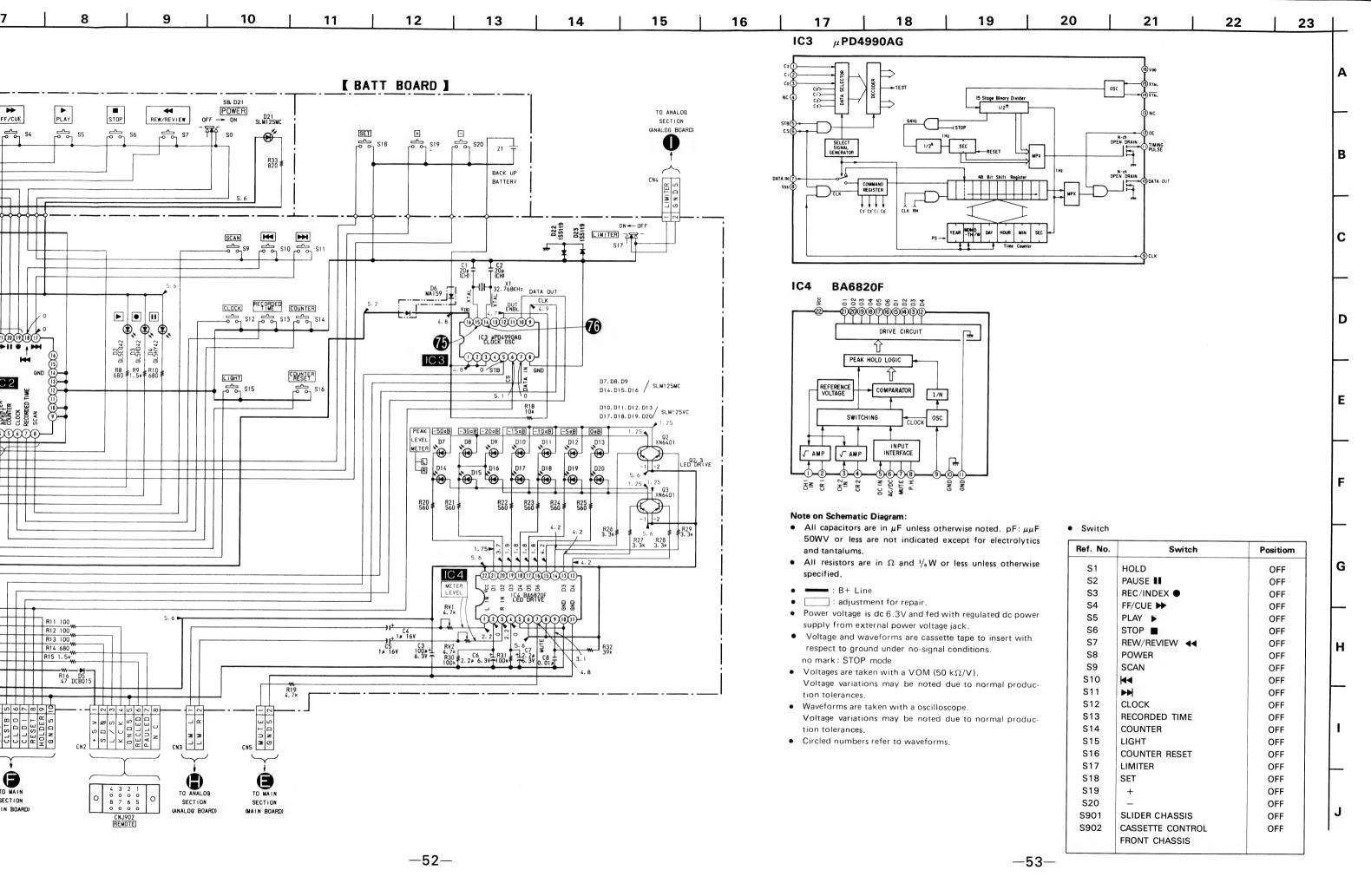
Ref. No.	Location	
D1	H-3	
D2	E-6	
D3	E-7	
D4	E-8	
D5	C-8	
D6	F-13	ı
D7	F-7	1
D8	F-7	
D9	F-7	
D10	F-7	
D11	F-8	
D12	F-8	
D13	F-8	
D14	G-7	
D15	G-7	
D16	G-7	
D17	G-7	
D18	G-8	
D19	G-8	
D20	G-8	
D21	I-3	
IC1	B-3	
IC2	B-11	
IC3	B-14	
IC4	C-5	
Q1	B-6	
Q2	B-6	
Q3	C-6	



TCD-D10 TCD-D10







5-9. SEMICONDUCTOR LEAD LAYOUTS

19 IC530

20 IC530

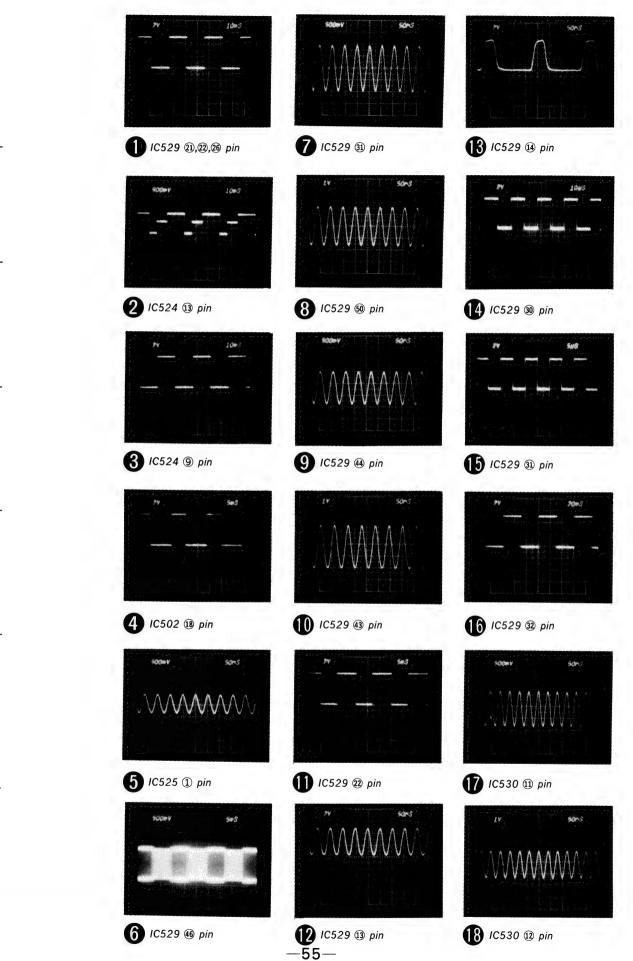
IC530 (Difficu

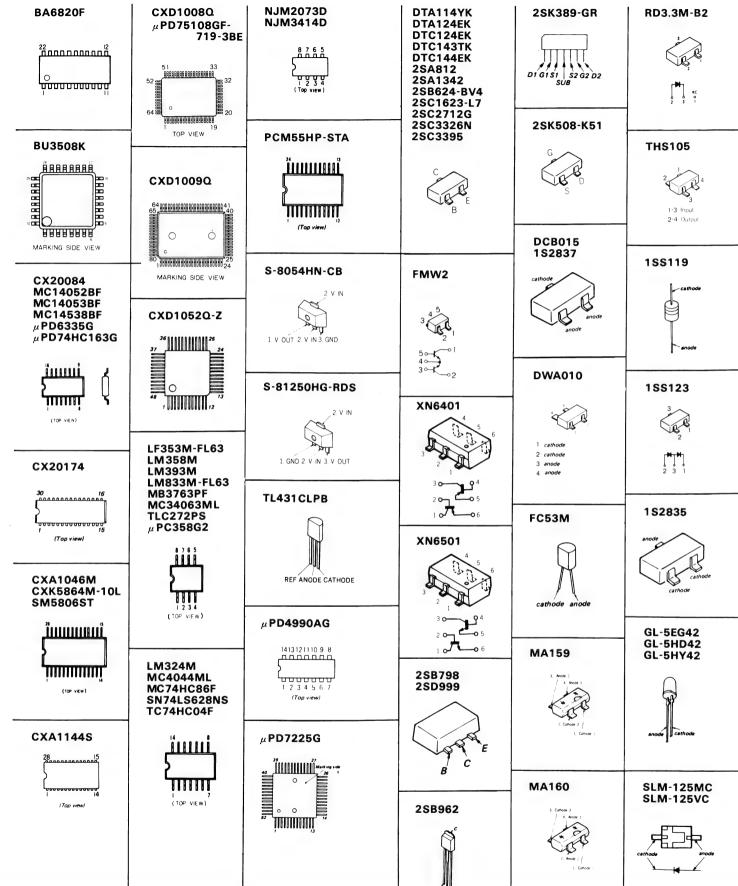
22 IC530

23 IC501 (

24 IC502 (

5-10. WAVEFORMS





5-10. WAVEFORMS

RD3.3M-B2

B

MC P

1-3 Input 2-4 Output

188119

188123

3

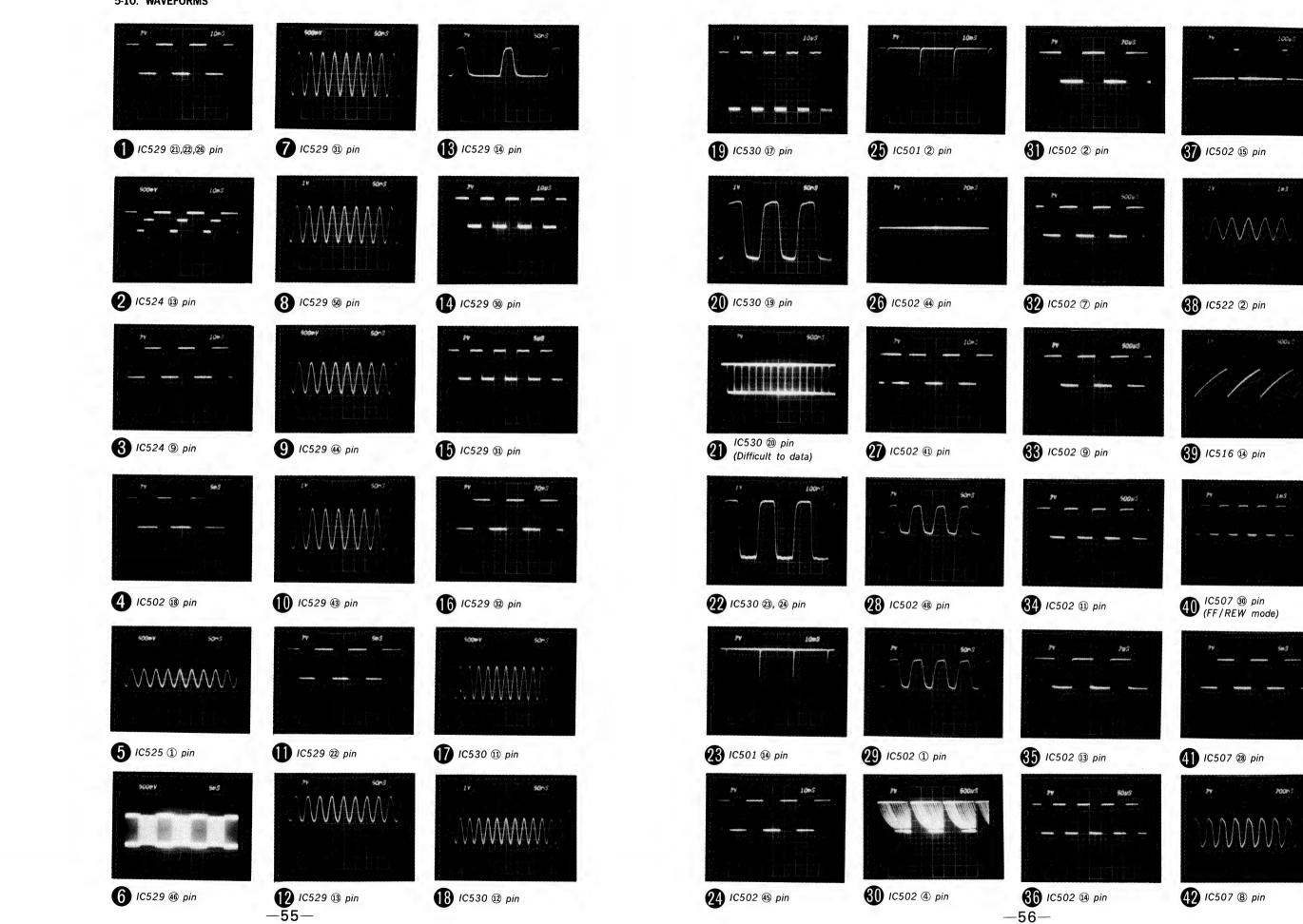
2 3 1

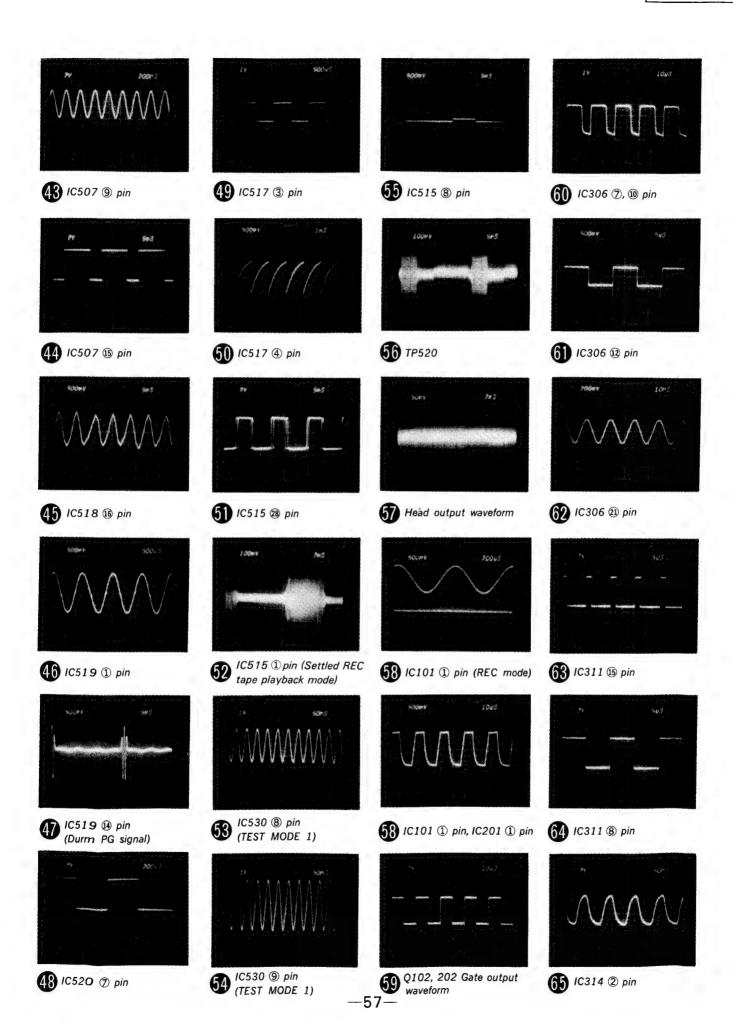
1S2835

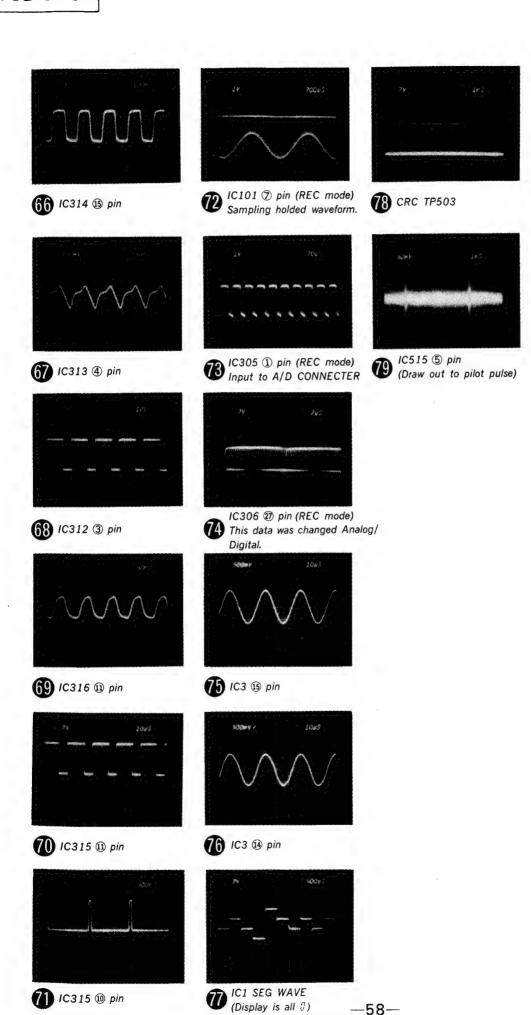
GL-5EG42 GL-5HD42 GL-5HY42

SLM-125MC SLM-125VC

THS105







--58-

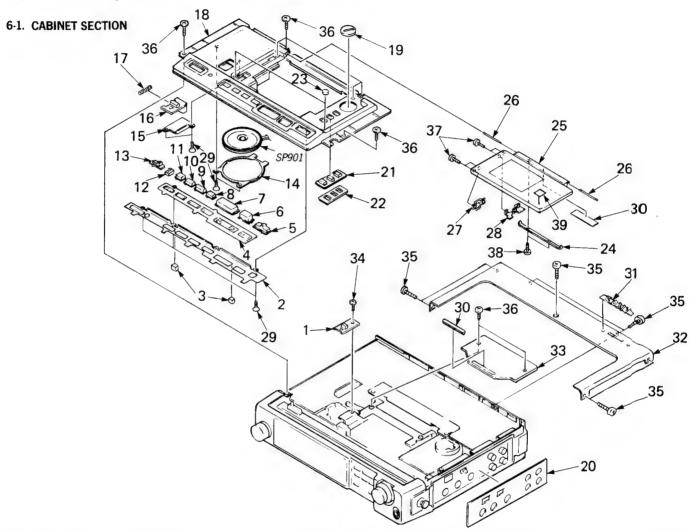
SECTION 6 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:

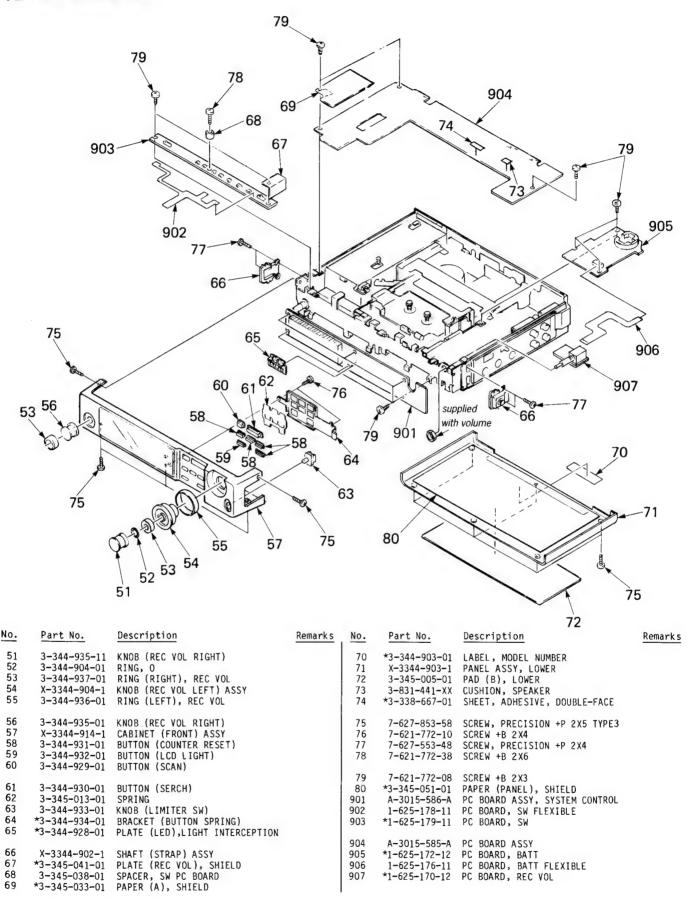
(RED) ... KNOB, BALANCE (WHITE)

Cabinet's Color Parts Color



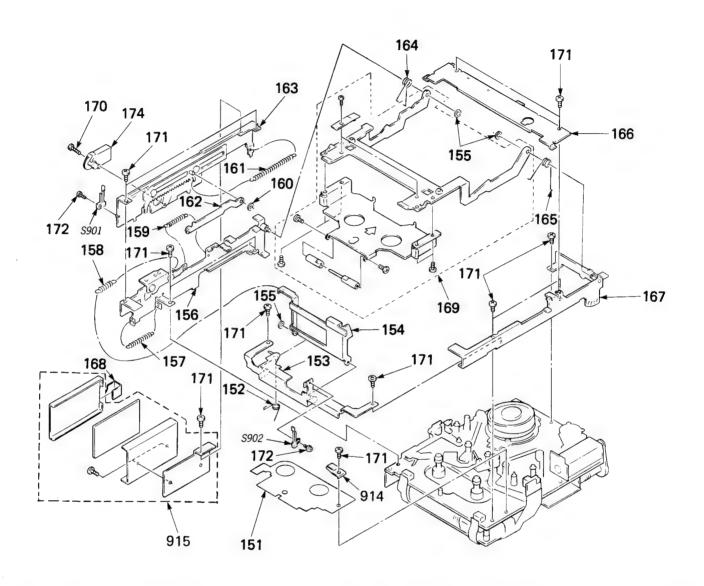
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1 2 3 4 5		BRACKET (CONTROL BUTTON SPRING) CUSHION, CASSETTE LID SPRING		21 22 23 24 25	3-331-603-01 3-344-958-01	BRACKET (TIME SET KEY)	
6 7 8 9 10	3-344-942-01 3-344-943-01 3-344-944-01			26 27 28 29 30	*3-344-959-01 *X-3344-906-1 3-318-382-31	SHAFT (CASSETTE LID) PLATE, LOCK, CASSETTE LID PLATE ASSY, FULCRUM, OPEN ARM SCREW (1.7X3), TAPPING SHEET, REAR, CASSETTE LID	
11 12 13 14 15	3-344-939-01 *3-344-951-01	PLATE (POWER LED), LIGHT GUIDE KNOB (POWER)		31 32 33 34 35	7-627-553-18		
16 17 18 19 20	3-344-950-01 X-3344-918-1 3-344-954-01	KNOB (CASSETTE LID OPEN) SPRING, COMPRESSION CABINET (UPPER) ASSY LID, BATTERY CASE PLATE, INDICATION, JACK		36 37 38 39 SP901		SCREW (P1.4X2.5) SCREW, PRECISION +P 1.4X2.5 STICKER, SONY SYMBOL (18)	

6-2. FRONT PANEL SECTION



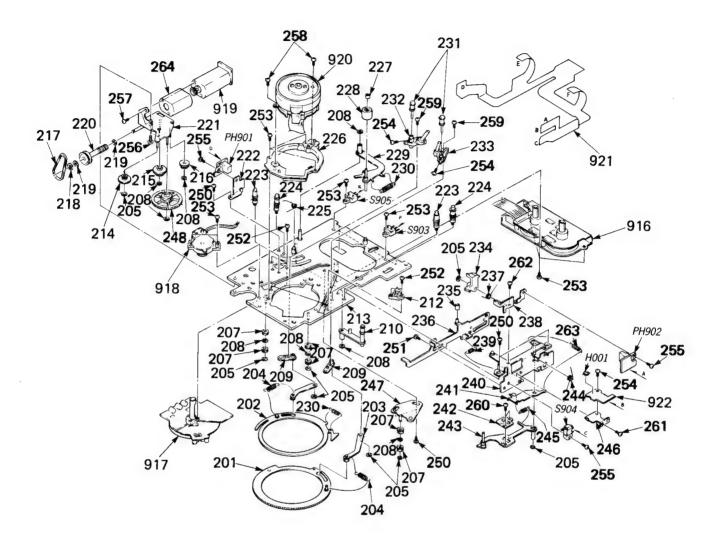
6-3. CHASSIS SECTION 132 104 131 103 105 133 102 136 106 107 133 108 118 111 132 134 131 (including ●A) 10 109 132 131 910 117 114 116 911 135 133 128 115 0 913 131 132 909 131 J901, 902 (908 129 CNJ901 -120124 130 -122123 126 CNJ902 101 supplied with jack 129 125 Remarks Description Description Remarks No. Part No. No. Part No. *3-345-039-01 *3-345-040-01 SHEET (A), MJ SHEET (B), MJ CHASSIS (FRONT) 125 101 *3-345-020-01 *3-345-049-01 PAPER, CONDUCTIVE 126 102 3-344-911-01 KNOB (BATTERY) X-3344-913-1 BRACKET ASSY 128 103 SCREW +B 2X4 SCREW, PIN JACK STOPPER 7-621-772-10 COVER, BATTERY CASE 104 *3-345-008-01 129 3-344-902-01 CLAW, BATTERY LOCK 105 3-344-919-01 130 SCREW +B 2X3 7-621-772-08 131 PLATE, LOCK, BATTERY 106 *3-344-918-01 132 3-318-203-71 SCREW (B1.7X5), TAPPING 107 3-344-921-01 SPRING SCREW, PRECISION +P 2X4 SCREW, PRECISION +P 2X8 SHAFT (BATTERY LOCK) CABINET ASSY TERMINAL, BATTERY CABINET (REAR) 7-627-553-48 133 108 *3-344-920-01 7-627-553-98 134 109 X-3344-901-1 3-831-441-XX CUSHION, SPEAKER 135 3-344-922-01 110 3-686-775-01 SPRING 136 3-345-010-01 111 137 *3-324-586-11 SHEET, INSULATING, PC BOARD 3-344-924-01 SPRING 112 PC BOARD, SYSCON (B) FLEXIBLE PC BOARD, SYSCON (A) FLEXIBLE PC BOARD, FS FLEXIBLE LID, SLIDE, BATTERY ROLLER, LOCK CHASSIS (REAR) 908 1-625-175-11 113 3-345-009-01 1-625-174-11 1-625-177-11 909 3-344-923-01 114 115 *3-344-910-01 910 PC BOARD ASSY, MAIN A-3015-584-A 3-344-912-01 SPRING, TENSION 911 116 PC BOARD, PB VOL *1-625-171-12 *3-345-032-01 SHEET (FR PACK) 913 117 CNJ901 1-507-593-21 PIN JACK 4P (LINE IN/OUT) 118 3-315-384-11 WASHER, STOPPER CNJ902 1-565-040-11 PIN, CONNECTOR (REMOTE) 120 3-645-566-00 BAND, BINDING CHASSIS (JACK PLATE) ASSY 121 *X-3344-905-1 KNOB (MIC ATT) BRACKET (MIC ATT KNOB) PLATE (JACK), SHIELD .1901 1-507-421-31 JACK (MICROPHONE L) 122 3-344-914-01 J902 1-507-421-31 1-565-108-11 JACK (MICROPHONE R) JACK, LARGE TYPE (HEADPHONES) *3-344-915-01 123 *3-345-035-01 J903

6-4. MECHANISM SECTION (DATM-02)



No	Part No.	Description	Domente	No	David No.	B	
No.	FAIL NO.	Description	Remarks	No.	Part No.	Description	Remarks
151 152 153 154	*3-344-994-01 3-344-987-01 *X-3344-910-1 *3-344-988-01	PLATE, BLIND, MD SPRING CHASSIS ASSY PLATE, LOCK		165 166 167 168	3-344-978-01 *3-344-976-01 *X-3344-915-1 *3-345-043-01	CHASSIS (MD-R) ASSY	
155 156 157 158	3-344-901-01 *X-3344-916-1 3-536-820-00 3-344-989-01	WASHER, STOPPER CHASSIS (MD-L) ASSY SPRING, TENSION SPRING, TENSION		169 170 171 172	X-3344-917-1 7-627-553-98 7-621-772-08 7-627-850-18	FRAME ASSY SCREW, PRECISION +P 2X8 SCREW +B 2X3 SCREW, PRECISION +P 1.4X2.5	
159 160 161 162 163	3-563-104-00 3-307-948-31 3-344-967-01 3-344-963-01 *X-3344-907-1	SPRING, TENSION WASHER, NYLON SPRING, TENSION ARM, CASSETTE LID OPEN CHASSIS (OPEN SLIDER) ASSY		174 176 915 S901 S902	3-681-528-11 3-344-974-01 1-464-903-11 1-554-154-00 1-554-154-00	DAMPER SPRING (L) MODULATOR, RF SWITCH, LEAF (SLIDER CHASSIS) SWITCH, LEAF (CASSETTE CONTROL FRONT	CHASSIS)

6-5. MECHANISM SECTION (DATM-02)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201 202 203 204 205	X-3337-601-1 *X-3337-607-1 3-337-653-01	RING (LEFT) ASSY, LOADING RING (RIGHT) ASSY, LOADING ARM (LEFT) ASSY, LOADING SPRING, TENSION WASHER, POLYETHYLENE, DIA.1.2		237 238 239 240 241	3-570-892-00 *X-3337-619-1	SPRING BRACKET (L) ASSY, E DETECTION SPRING, TENSION CHASSIS ASSY, TENSION REGULATOR LEVER, LIMITER	
206 207 208 209 210	2_227_622_01	ARM (RIGHT) ASSY, LOADING ROLLER, RING WASHER, 1.6 POLYETHYLENE PLATE ASSY, LOADING ARM ASSY, F CATCHER CHASSIS ASSY, MECHANICAL GEAR, MIDWAY		242 243 244 245 246	X-3337-609-1 3-337-673-01 3-307-377-00	HOLDER ASSY, MAGNET ARM ASSY, TENSION REGULATOR SPRING SPRING, TENSION BRACKET, HOLE ELEMENT	
212 213 214 215 216	*3-337-685-01 *X-3337-625-1 3-337-669-01 3-337-649-01 3-337-648-01	CATCHER CHASSIS ASSY, MECHANICAL GEAR, MIDWAY WHEEL, WORM GEAR (B), LOADING		247 248 249 250 251	3-337-647-01		
217 218 219 220 221	3-337-652-01 7-624-102-04 3-701-437-21 3-337-650-01 *X-3337-617-1	GEAR, MIDWAY WHEEL, WORM GEAR (B), LOADING BELT, CONTROL STOP RING 1.5, TYPE -E WASHER GEAR, WORM BRACKET ASSY, CONTROL MOTOR		252 253 254 255 256	7-621-772-18 7-627-551-17 7-621-772-20	SCREW, PRECISION +P 1.4X2	
222 223 224 225 226	X-3337-623-1	BRACKET (RIGHT), E DETECTION GUIDE (5.0) ASSY, FIXED GUIDE (4.0) ASSY, FIXED SPRING SLANT ASSY		257 258 259 260 261	7-621-255-25 3-703-502-81 7-627-551-87		
227 228 229 230 231		SPRING SLANT ASSY CAP, PINCH ROLLER PINCH ROLLER ASSY ARM ASSY, PINCH ROLLER SPRING, TENSION GUIDE (POM) ASSY, ROLLER		262 263 264 914 916	3-561-626-00 *3-345-101-01 1-808-281-11	SCREW, PRECISION +P 1.7X1.6 SPRING, TENSION PLATE (LOADING MOTOR), SHIELD SENSOR MOTOR, DC U-2C	
232 233 234 235 236	X-3337-615-1 3-337-698-01 3-337-664-01			917 918 919 920 921 922	1-464-724-11 X-3337-626-1 8-848-509-01 1-625-241-11	MOTOR, DC BHF-2803A ENCODER, ROTARY L MOTOR ASSY DRUM ASSY DOH-01E PC BOARD, MD (A) FLEXIBLE MOUNTED PCB, TENSION REGULATOR	

SECTION 7 **ELECTRICAL PARTS LIST**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μF, PF: μμF.

RESISTORS

- All resistors are in ohms.F: nonflammable

COILS

MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example: UA...: μΑ..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

Ref.No.	Part No.	<u>Description</u>	Ref.No.	Part No.	Description			
901 902 903	A-3015-586-A 1-625-178-11 *1-625-179-11	PC BOARD ASSY, SYSTEM CONTROL PC BOARD, SW FLEXIBLE PC BOARD, SW	C117 C118 C119	1-124-287-00 1-163-101-00 1-163-021-00	CERAMIC CHIP		20% 5% 10%	10V 50V 50V
904 905 906	*1-625-172-12	PC BOARD ASSY PC BOARD, BATT PC BOARD, BATT FLEXIBLE	C120 C121 C122	1-124-287-00 1-124-287-00 1-163-022-00	ELECT ELECT CERAMIC CHIP	10MF 10MF 0.012MF	20% 20% 10%	10V 10V 50V
907 908 909	*1-625-170-12 1-625-175-11 1-625-174-11	PC BOARD, REC VOL PC BOARD, SYSCON (B) FLEXIBLE PC BOARD, SYSCON (A) FLEXIBLE	C123 C201 C202	1-163-111-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	56PF	10% 5% 5%	50V 50V 50V
910 911 913	A-3015-584-A	PC BOARD, FS FLEXIBLE PC BOARD ASSY, MAIN PC BOARD, PB VOL	C203 C204 C205	1-124-287-00 1-124-287-00 1-163-111-00		10MF 10MF 56PF	20% 20% 5%	10V 10V 50V
914 915 916	1-808-281-11 1-464-903-11 8-835-285-01		C206 C207 C208	1-136-162-00 1-124-287-00 1-126-151-11	ELECT	0.056MF 10MF 4.7MF	5% 20% 20%	50V 10V 16V
917 918 919	1-464-724-11	MOTOR, DC BHF-2803A ENCODER, ROTARY L MOTOR ASSY	C209 C210 C211		ELECT TANTAL. CHIP TANTAL. CHIP		20% 10% 10%	16V 6.3V 6.3V
920 921 922	1-625-241-11	DRUM ASSY DOH-01E PC BOARD, MD (A) FLEXIBLE MOUNTED PCB, TENSION REGULATOR	C212 C213 C214	1-103-733-00 1-163-121-00 1-124-225-00	CERAMIC CHIP		5% 5% 20%	50V 50V 6.3V
C1 C2 C3		CERAMIC CHIP 20PF 5% 50V CERAMIC CHIP 20PF 5% 50V ELECT 100MF 20% 6.3V	C215 C216 C217	1-124-461-11 1-124-461-11 1-124-287-00	ELECT ELECT ELECT	4.7MF 4.7MF 10MF	20% 20% 20%	16V 16V 10V
C4 C5 C6	1-135-091-00	TANTAL. CHIP 1MF 10% 16V TANTAL. CHIP 1MF 10% 16V TANTAL. CHIP 2.2MF 10% 6.3V	C218 C219 C220	1-163-101-00 1-163-021-00 1-124-287-00	CERAMIC CHIP		5% 10% 20%	50V 50V 10V
C7 C8 C101	1-163-021-00	TANTAL. CHIP 2.2MF 10% 6.3V CERAMIC CHIP 0.01MF 10% 50V CERAMIC CHIP 56PF 5% 50V	C221 C222 C223	1-124-287-00 1-163-022-00 1-163-133-00	CERAMIC CHIP		20% 10% 10%	10V 50V 50V
C102 C103 C104		CERAMIC CHIP 150PF 5% 50V ELECT 10MF 20% 10V ELECT 10MF 20% 10V	C301 C302 C303	1-124-236-00 1-124-236-00 1-124-222-00	ELECT	47MF 47MF 22MF	20% 20% 20%	16V 16V 6.3V
C105 C106 C107	1-136-162-00	CERAMIC CHIP 56PF 5% 50V FILM 0.056MF 5% 50V ELECT 10MF 20% 10V	C304 C305 C306	1-124-222-00 1-124-222-00 1-124-222-00	ELECT	22MF 22MF 22MF	20% 20% 20%	6.3V 6.3V 6.3V
C108 C109 C110	1-126-151-11 1-124-462-00 1-135-099-00	ELECT 4.7MF 20% 16V ELECT 10MF 20% 16V TANTAL. CHIP 2.2MF 10% 6.3V	C307 C308 C309	1-135-099-00 1-135-099-00 1-163-077-00	TANTAL. CHIP	2.2MF	10% 10% 10%	6.3V 6.3V 25V
C111 C112 C113	1-135-099-00 1-103-733-00 1-163-121-00	TANTAL. CHIP 2.2MF 10% 6.3V POLYSTYRENE 0.0022MF 5% 50V CERAMIC CHIP 150PF 5% 50V	C310 C311 C312	1-163-077-00 1-124-462-00 1-163-021-00	CERAMIC CHIP ELECT CERAMIC CHIP	1 OMF	10% 20% 10%	25V 16V 50V
C114 C115 C116	1-124-225-00 1-124-461-11 1-124-461-11		C313 C314 C315	1-163-021-00 1-135-099-00 1-163-141-00		2.2MF	10% 10% 10%	50V 6.3V 50V

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C316 C317 C318	1-163-077-00 1-163-141-00 1-163-088-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF	10% 10% 0.25PF	25V 50V 50V	C511 C512 C513	1-163-077-00 1-163-077-00 1-163-021-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 10%	25V 25V 50V
C319 C320 C321	1-163-093-00 1-163-021-00 1-124-462-00	CERAMIC CHIP CERAMIC CHIP ELECT	-	5% 10% 20%	50V 50V 16V	C514 C515 C516	1-163-098-00 1-163-098-00 1-163-013-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	16PF	5% 5% 10%	50V 50V 50V
C322	1-124-462-00	ELECT	10MF	20%	16V	C517	1-163-021-00	CERAMIC CHIP		10%	50V
C323	1-124-229-00	ELECT	33MF	20%	10V	C518	1-163-141-00	CERAMIC CHIP		10%	50V
C324	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C519	1-124-222-00	ELECT		20%	6.3V
C325	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C520	1-124-462-00	ELECT	10MF	20%	16V
C326	1-124-462-00	ELECT	10MF	20%	16V	C521	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C327	1-124-462-00	ELECT	10MF	20%	16V	C522	1-124-222-00	ELECT	22MF	20%	6.3V
C328 C329 C330	1-163-081-00 1-163-021-00 1-124-462-00	CERAMIC CHIP CERAMIC CHIP ELECT		10% 20%	25V 50V 16V	C523 C524 C529	1-124-236-00 1-163-037-11 1-163-021-00	ELECT CERAMIC CHIP CERAMIC CHIP		20% 10% 10%	10V 25V 50V
C332	1-163-037-11	CERAMIC CHIP	2.2MF	10%	25V	C530	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C333	1-135-099-00	TANTAL. CHIP		10%	6.3V	C531	1-124-222-00	ELECT	22MF	20%	6.3V
C334	1-135-099-00	TANTAL. CHIP		10%	6.3V	C532	1-124-225-00	ELECT	100MF	20%	6.3V
C335	1-124-461-11	ELECT	4.7MF	20%	16V	C533	1-135-091-00	TANTAL. CHIP	1MF	10%	16V
C336	1-124-461-11	ELECT	4.7MF	20%	16V	C534	1-126-103-11	ELECT	470MF	20%	10V
C337	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	C535	1-124-462-00	ELECT	10MF	20%	16V
C338	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C536	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C339	1-124-443-00	ELECT	100MF	20%	10V	C537	1-124-236-00	ELECT	47MF	20%	10V
C340	1-124-436-00	ELECT	3.3MF	20%	25V	C538	1-124-462-00	ELECT	10MF	20%	16V
C341	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C539	1-136-173-00	FILM	0.47MF	5%	50V
C342	1-163-077-00	CERAMIC CHIP		10%	25V	C540	1-136-169-00	FILM	0.22MF	5%	50V
C344	1-135-099-00	TANTAL. CHIP		10%	6.3V	C541	1-124-462-00	ELECT	10MF	20%	16V
C345 C346 C347	1-163-077-00 1-163-077-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10%	25V 25V 25V	C542 C543 C544	1-124-462-00 1-163-037-11 1-163-021-00	ELECT CERAMIC CHIP CERAMIC CHIP		20% 10% 10%	16V 25V 50V
C348 C349 C350	1-163-077-00 1-163-077-00 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 5%	25V 25V 50V	C545 C546 C547	1-163-037-11 1-131-388-00 1-163-141-00	CERAMIC CHIP TANTALUM CERAMIC CHIP	68MF	10% 10% 10%	25V 6.3V 50V
C351 C352 C353	1-163-077-00 1-163-077-00 1-163-077-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 10%	25V 25V 25V	C548 C549 C550	1-163-021-00 1-163-021-00 1-163-141-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	10% 10% 10%	50V 50V 50V
C354	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	C551	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C355	1-124-224-00	ELECT	47MF	20%	6.3V	C552	1-136-157-00	FILM	0.022MF	5%	50V
C356	1-124-229-00	ELECT	33MF	20%	6.3V	C553	1-136-157-00	FILM	0.022MF	5%	50V
C357	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	C554	1-136-153-00	FILM	0.01MF	5%	50V
C358	1-124-224-00	ELECT	47MF	20%	6.3V	C555	1-136-153-00	FILM	0.01MF	5%	50V
C359	1-124-444-00	ELECT	220MF	20%	6.3V	C556	1-131-382-00	TANTALUM	6.8MF	10%	6.3V
C360 C361 C362	1-124-229-00 1-135-099-00 1-135-099-00	ELECT TANTAL. CHIP TANTAL. CHIP		20% 10% 10%	6.3V 6.3V 6.3V	C557 C558 C559	1-163-019-00 1-163-077-00 1-163-077-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 10%	50V 25V 25V
C363 C364 C501	1-163-141-00 1-163-117-00 1-136-157-00			10% 5% 5%	50V 50V 50V	C560 C561 C562	1-136-153-00 1-124-462-00 1-124-236-00	FILM ELECT ELECT	0.01MF 10MF 47MF	5% 20% 20%	50V 16V 10V
C502	1-136-155-00	FILM	0.015MF	5%	50V	C563	1-136-169-00	FILM		5%	50V
C503	1-131-388-00	TANTALUM	68MF	10%	6.3V	C564	1-163-021-00	CERAMIC CHIP		10%	50V
C504	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	C565	1-163-021-00	CERAMIC CHIP		10%	50V
C505	1-136-160-00	FILM	0.039MF	5%	50V	C566	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C506	1-136-169-00	FILM	0.22MF	5%	50V	C567	1-124-462-00	ELECT	10MF	20%	16V
C507	1-136-172-00	FILM	0.39MF	5%	50V	C568	1-124-462-00	ELECT	10MF	20%	16V
C508 C509 C510	1-163-021-00 1-124-462-00 1-163-021-00	CERAMIC CHIP ELECT CERAMIC CHIP	10MF	10% 20% 10%	50V 16V 50V	C569 C570 C571	1-135-070-00 1-135-091-00 1-163-077-00	TANTAL. CHIP TANTAL. CHIP CERAMIC CHIP	1MF	10% 10% 10%	35V 16V 25V

Ref.No.	Part No.	Description			1	Ref.No.	Part No.	Description			
C572 C573 C574	1-163-077-00	CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP	0.1MF	10% 10% 10%	25V 25V 16V	C810 C811 C812	1-124-234-00 1-124-462-00 1-135-072-21		22MF 10MF 0.22MF	20% 20% 10%	10V 16V 35V
C575 C576 C577	1-124-225-00 1-124-462-00 1-163-013-00		100MF 10MF 0.0022MF	20% 20% 10%	6.3V 16V 50V	C815 C816 C817	1-163-135-00 1-163-809-11 1-126-090-11	CERAMIC CHIP CERAMIC CHIP ELECT		10% 10% 20%	50V 25V 10V
C578 C579 C580	1-124-225-00 1-124-462-00 1-163-013-00	ELECT ELECT CERAMIC CHIP	100MF 10MF 0.0022MF	20% 20% 10%	6.3V 16V 50V	C818 C819 C820	1-124-234-00 1-163-809-11 1-163-133-00	ELECT CERAMIC CHIP CERAMIC CHIP		20% 10% 10%	10V 25V 50V
C581 C582 C583	1-124-236-00 1-124-436-00 1-124-436-00		47MF 3.3MF 3.3MF	20% 20% 20%	10V 25V 25V	C901 C902	1-102-106 1-102-106	CERAMIC CERAMIC	100P 100P	١.٥٥	
C584 C586 C587	1-124-225-00 1-163-021-00 1-163-077-00	CERAMIC CHIP		20% 10% 10%	6.3V 50V 25V	CN1 CN2 CN3	1-565-582-31 1-565-588-11 1-565-582-21	PIN, CONNECTO PIN, CONNECTO	OR (PC BOARD OR (PC BOARD) 8P) 2P	
C588 C589 C590	1-163-077-00 1-163-077-00 1-124-222-00	CERAMIC CHIP CERAMIC CHIP ELECT		10% 10% 20%	25V 25V 6.3V		1-565-582-11 1-565-582-51 1-565-570-21	PIN, CONNECTO PIN, CONNECTO	OR (PC BOARD OR (PC BOARD) 2P) 4P	
C591 C592 C593	1-163-141-00 1-163-077-00 1-163-077-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 10%	50V 25V 25V	CN303 CN304	1-565-572-21 1-565-572-11 1-565-572-31	PIN, CONNECTO	OR (PC BOARD OR (PC BOARD) 6P) 6P	
C594 C595 C596	1-163-077-00 1-124-462-00 1-163-077-00		1 OMF	10% 20% 10%	25V 16V 25V	CN306 CN307	1-565-574-11 1-565-568-21 1-565-568-11		OR (PC BOARD OR (PC BOARD) 2P) 2P	
C597 C598 C599	1-163-019-00 1-163-077-00 1-163-023-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 10%	50V 25V 50V	CN309	1-565-568-31 1-565-570-11 1-565-568-11	PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO	OR (PC BOARD) 4P	
C600 C601 C602	1-124-462-00 1-163-021-00 1-163-117-00	ELECT CERAMIC CHIP CERAMIC CHIP		20% 10% 5%	16V 50V 50V	CN501	1-565-571-21 1-565-568-21 1-565-570-11	PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO	R (PC BOARD) 2 P	
C603 C604 C605	1-163-141-00 1-163-077-00 1-163-141-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 10%	50 V 25 V 50 V	CN505	1-565-568-31 1-565-571-21 1-565-568-41	PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO	R (PC BOARD) 5P	
C606 C607 C608	1-163-093-00 1-163-093-00 1-163-141-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10PF	5% 5% 10%	50V 50V 50V	CN508	1-565-568-11 1-565-571-11 1-565-574-11	PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO	R (PC BOARD	5P	
C610	1-163-141-00 1-163-077-00 1-163-077-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 10%	50V 25V 25V	CN511	1-565-578-11 1-565-568-51 1-507-593-21	PIN, CONNECTO	OR (PC BOARD) 2P	
C613	1-163-077-00 1-163-077-00 1-163-077-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10% 10%	25V 25V 25V	CNJ902	1-565-040-11 1-464-902-11	PIN, CONNECTO	R (REMOTE)		
C616	1-163-077-00 1-163-093-00 1-163-093-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 10PF	10% 5% 5%	25V 50V 50V	D1 D2 D3	1-808-243-11 8-719-939-97 8-719-939-42	DIODE (BLOCK DIODE GL5EG42 DIODE GL5HD42			
C618 C619	1-163-093-00 1-163-093-00 1-135-091-00	CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP	10PF 10PF	5% 5% 10%	50V 50V 16V	D4 D5 D6	8-719-939-36 8-719-940-38 8-719-404-12	DIODE GL5HY42 DIODE DCB015 DIODE MA159			
C622 C623	1-124-576-11 1-124-576-11	ELECT	22 OMF 22 OMF 22 OMF 2 2 MF	20% 20% 20%	4 V 4 V 6 . 3 V	D7 D8 D9	8-719-946-86 8-719-946-86 8-719-946-86	DIODE SLM-125 DIODE SLM-125 DIODE SLM-125	MC		
C801 C802	1-126-103-11	ELECT ELECT	470MF 330MF 330MF	20% 20% 20%	10V 6.3V 6.3V	D10 D11 D12	8-719-946-87 8-719-946-87 8-719-946-87	DIODE SLM-125 DIODE SLM-125 DIODE SLM-125	VC		
C804 C805	1-124-120-11 1-124-120-11	ELECT ELECT	22 OMF 22 OMF 22 OMF	20% 20% 20%	25V 25V 10V	D13 D14 D15	8-719-946-87 8-719-946-86 8-719-946-86	DIODE SLM-125 DIODE SLM-125 DIODE SLM-125	MC		
C807 C808	1-124-234-00	ELECT ELECT	22MF 22MF	20% 20% 10%	10V 10V 25V						

Ref.No.	Part No.	<u>Description</u>	Ref.No.	Part No.	Description
D16 D17 D18	8-719-946-87	DIODE SLM-125MC DIODE SLM-125VC DIODE SLM-125VC	IC507	8-759-970-58 8-759-142-99 8-759-030-03	IC UPD75108GF-719-3BE
D19 D20 D21	8-719-946-87	DIODE SLM-125VC DIODE SLM-125VC DIODE SLM-125MC	IC510	8-759-030-06 8-759-009-07 8-759-013-22	IC MC14053BF
D22 D23		DIODE ISS119 DIODE ISS119	IC513	8-759-914-15 8-759-013-22 8-759-030-06	IC LM358MR
D101 D102 D201	8-719-404-12	DIODE 1SS123 DIODE MA159 DIODE 1SS123	IC516	8-752-030-63 8-759-009-51 8-759-909-45	IC MC14538BF
D202 D301 D302	8-719-404-12 8-719-404-12 8-719-100-05		1C518 1C519	8-752-017-40 8-759-030-06 8-759-030-03	IC CX20174 IC LM324MR
D303 D304 D502	8-719-940-38	DIODE 1S2835 DIODE DCB015 DIODE 1S2837	IC521 IC522	8-759-030-06 8-759-030-03 8-759-008-48	IC LM324MR IC LM393MR
0504 0505 0506	8-719-403-94	DIODE DWAO10 DIODE MA160 DIODE DWAO10	IC524 IC525	8-759-009-06 8-759-970-59 8-759-970-59	IC MC14052BF IC TLC272CPS
D507 D509 D510	8-719-940-45	DIODE 1S2837 DIODE DWAO10 DIODE 1S2837	1C527 1C528	8-752-323-50	IC CXK5864M-10L IC CXK5864M-10L
D511 D512 D513	8-719-915-30	DIODE 1SS123 DIODE FC53M DIODE 1S2837	IC530 IC531	8-759-933-84 8-759-009-07 8-759-013-27	IC CXD1008Q IC MC14053BF
D801 D803		DIODE 1S2837 DIODE RD3.3M-B1	10534	8-759-914-44	
F801	1-532-779-21	FUSE, MICRO (SECONDARY)	10802	8-759-940-45	IC S-8054HN-CB CONVERTER UNIT, DC-DC
FL1 FL301		ENCAPSULATED COMPONENT FILTER UNIT, LOW PASS	J901 J902	1-507-421-31	JACK (MICROPHONE L) JACK (MICROPHONE R)
H001	8-719-800-11	THS105-SONY1-TE85L	J903	•	JACK, LARGE TYPE (HEADPHONES)
IC1 IC2 IC3	8-759-970-58	IC UPD7225G-00 IC BU3508K IC UPD4990AG-T1			METAL GLAZE 0 5% 1/10W INDUCTOR CHIP 0.47UH INDUCTOR 10UH
	8-759-970-69	IC BA6820F-T1 IC LF353M-FL63 IC LF353M-FL63	L303	1-410-328-11	INDUCTOR 10UH
		IC LF353M-FL63	L501 L502	1-421-665-11	
IC303	8-759-970-67	IC LM833M-FL63 IC LM833M-FL63	L503 L504	1-459-857-11 1-408-575-00	COIL (WITH CORE) INDUCTOR 100UH
IC305		IC LF353M-FL63	ND1	1-808-231-11	DISPLAY PANEL, LIQUID CRYSTAL
10306	8-752-031-78 8-759-701-43		N051	3-831-441-XX	CUSHION, CABINET UPPER 10X7X0.3
	8-759-100-94	IC UPC358G2	PH901 PH902	1-807-698-11 1-807-698-11	PHOTO SENSOR PHOTO SENSOR
	8-759-941-71 8-759-945-37 8-759-013-41	IC PCM55HP-STA IC SM5806ST IC MC4044ML	Q1 Q2 Q3		TRANSISTOR DTC124EK TRANSISTOR XN6401 TRANSISTOR XN6401
IC314	8-759-106-94	IC SN74LS628NS IC UPD74HC163G IC UPD74HC163G	Q101 Q102 Q103	8-729-116-64	TRANSISTOR 2SK389-GR TRANSISTOR 2SK508-K51 TRANSISTOR 2SC3326N
IC501	8-759-204-96 8-759-009-51 8-759-946-81		Q104 Q105 Q201	8-729-100-67	TRANSISTOR 2SD596 TRANSISTOR 2SC1623-L7 TRANSISTOR 2SK389-GR
I C503 I C504 I C505	8-759-013-22 8-759-013-22 8-759-140-60	IC LM358MR			

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description	
Q202 Q203 Q204	8-729-116-64 8-729-202-38 8-729-159-64	TRANSISTOR 2SK508-K51 TRANSISTOR 2SC3326N TRANSISTOR 2SD596	Q545 Q546 Q550	8-729-100-76 8-729-100-67 8-729-101-07	TRANSISTOR 2SC1623	3-L7
Q205 Q301 Q302	8-729-100-67 8-729-402-19 8-729-402-19	TRANSISTOR 1623-L7 TRANSISTOR XN6501 TRANSISTOR XN6501	0801 0802 0804	8-729-111-14 8-729-901-00 8-729-901-46	TRANSISTOR DTC124E	:K
Q303 Q304 Q305	8-729-901-01 8-729-100-67 8-729-271-22	TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L7 TRANSISTOR 2SC27120G	Q805 Q806 Q807	8-729-100-67 8-729-111-14 8-729-100-67	TRANSISTOR 2SA1385	5 - L
Q306 Q307 Q308	8-729-901-05 8-729-901-05 8-729-901-05	TRANSISTOR DTA124EK	R1 R2 R3	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE 100	5% 1/10W 5% 1/10W 5% 1/10W
Q309	8-729-101-07	TRANSISTOR 2SB798	R4	1-216-103-00		5% 1/10W
Q310	8-729-402-19	TRANSISTOR XN6501	R5	1-216-073-00		5% 1/10W
Q311	8-729-199-92	TRANSISTOR 2SD999	R6	1-216-073-00		5% 1/10W
Q312	8-729-402-78	TRANSISTOR XN6401	R7	1-216-073-00	METAL GLAZE 680	5% 1/10W
Q501	8-729-100-76	TRANSISTOR 2SA812	R8	1-216-045-00		5% 1/10W
Q502	8-729-100-67	TRANSISTOR 2SC1623-L7	R9	1-216-053-00		5% 1/10W
Q503	8-729-100-76	TRANSISTOR 2SA812	R10	1-216-045-00	METAL GLAZE 680	5% 1/10W
Q504	8-729-100-67	TRANSISTOR 2SC1623-L7	R11	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q505	8-729-100-76	TRANSISTOR 2SA812	R12	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q506	8-729-100-67	TRANSISTOR 2SA812	R13	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q508	8-729-100-76		R14	1-216-045-00	METAL GLAZE 680	5% 1/10W
Q509	8-729-903-82		R15	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
Q510	8-729-100-76	TRANSISTOR 2SA812	R16	1-216-017-00	METAL GLAZE 47	5% 1/10W
Q511	8-729-100-76	TRANSISTOR 2SA812	R18	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q512	8-729-900-98	TRANSISTOR DTC143TK	R19	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
Q513	8-729-100-76	TRANSISTOR 2SA812 TRANSISTOR DTC143TK TRANSISTOR 2SC1623-L7	R2 0	1-216-043-00	METAL GLAZE 560	5% 1/10W
Q514	8-729-900-98		R2 1	1-216-043-00	METAL GLAZE 560	5% 1/10W
Q517	8-729-100-67		R2 2	1-216-043-00	METAL GLAZE 560	5% 1/10W
Q518	8-729-102-78	TRANSISTOR 2SB962	R23	1-216-043-00	METAL GLAZE 560	5% 1/10W
Q519	8-729-162-44	TRANSISTOR 2SB624-BV4	R24	1-216-043-00	METAL GLAZE 560	5% 1/10W
Q520	8-729-100-76	TRANSISTOR 2SA812	R25	1-216-043-00	METAL GLAZE 560	5% 1/10W
Q521 Q522 Q523	8-729-159-64 8-729-100-67 8-729-162-44	TRANSISTOR 2SD596 TRANSISTOR 2SC1623-L7 TRANSISTOR 2SB624-BV4	R2 6 R2 7 R2 8	1-216-061-00 1-216-061-00 1-216-061-00	METAL GLAZE 3.3K METAL GLAZE 3.3K METAL GLAZE 3.3K	5% 1/10W
Q524	8-729-100-76	TRANSISTOR 2SA812	R29	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
Q525	8-729-159-64	TRANSISTOR 2SD596	R30	1-216-097-00	METAL GLAZE 100K	5% 1/10W
Q526	8-729-100-67	TRANSISTOR 2SC1623-L7	R31	1-216-097-00	METAL GLAZE 100K	5% 1/10W
Q527	8-729-805-67	TRANSISTOR 2SA1342	R32	1-216-748-11	METAL GLAZE 39K	5% 1/10W
Q528	8-729-805-67	TRANSISTOR 2SA1342	R33	1-216-047-00	METAL GLAZE 820	5% 1/10W
Q529	8-729-901-00	TRANSISTOR DTC124EK	R101	1-216-619-11	METAL CHIP 47	0.50%1/10W
Q530	8-729-100-76	TRANSISTOR 2SA812	R102	1-216-675-11	METAL CHIP 10K	0.50%1/10W
Q531	8-729-102-78	TRANSISTOR 2SB962	R103	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
Q532	8-729-805-45	TRANSISTOR 2SC3395	R104	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
Q533	8-729-805-45	TRANSISTOR 2SC3395	R105	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q534	8-729-100-76	TRANSISTOR 2SA812	R106	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q535	8-729-111-14	TRANSISTOR 2SA1385-L	R107	1-216-672-11	METAL CHIP 7.5K	0.50%1/10W
Q536	8-729-903-82	TRANSISTOR FMW2	R108	1-216-646-11	METAL CHIP 620	0.50% 1/10W
Q537	8-729-903-82	TRANSISTOR FMW2	R109	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
Q538	8-729-100-67	TRANSISTOR 2SC1623-L7	R110	1-216-097-00	METAL GLAZE 100K	5% 1/10W
Q539	8-729-100-67	TRANSISTOR 2SC1623-L7 TRANSISTOR 2SC162G-L7 TRANSISTOR 2SC1623-L7	R111	1-216-671-11	METAL CHIP 6.8K	0.50% /1 0W
Q540	8-729-100-67		R112	1-216-649-11	METAL CHIP 820	0.50% /1 0W
Q541	8-729-100-67		R113	1-216-677-11	METAL CHIP 12K	0.50% /1 0W
Q542	8-729-100-67	TRANSISTOR 2SC1623-L7 TRANSISTOR 2SA812 TRANSISTOR 2SC1623-L7	R114	1-216-097-00	METAL GLAZE 100K	5% 1/1 0W
Q543	8-729-100-76		R115	1-216-105-00	METAL GLAZE 220K	5% 1/1 0W
Q544	8-729-100-67		R116	1-216-017-00	METAL GLAZE 47	5% 1/1 0W

Ref.No.	Part No.	Description			1	Ref.No.	Part No.	Description			
R117	1-216-636-11	METAL CHIP	240	0.50%	1/10W	R219	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R118	1-216-647-11	METAL CHIP	680		1/10W	R220	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R119	1-216-663-11	METAL CHIP	3.3K		1/10W	R221	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R120	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R222	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R121	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R223	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R122	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	R224	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R123 R124 R125	1-216-097-00 1-216-677-11 1-216-675-11	METAL GLAZE METAL CHIP METAL CHIP	100K 12K 10K		1/10W 1/10W 1/10W	R225 R226 R227	1-216-675-11 1-216-639-11 1-216-666-11	METAL CHIP METAL CHIP METAL CHIP	10K 330 4.3K	0.50%	1/10W 1/10W 1/10W
R126 R127 R128	1-216-639-11 1-216-666-11 1-216-673-11	METAL CHIP METAL CHIP METAL CHIP	330 4.3K 8.2K	0.50% 0.50% 0.50%		R228 R229 R230	1-216-673-11 1-216-684-11 1-216-049-00	METAL CHIP METAL CHIP METAL GLAZE	8.2K 24K 1K		1/10W 1/10W 1/10W
R129 R130 R131	1-216-684-11 1-216-049-00 1-216-658-11	METAL CHIP METAL GLAZE METAL CHIP	24K 1K 2K	5%	1/10W 1/10W 1/10W	R231 R232 R233	1-216-658-11 1-216-653-11 1-216-077-00	METAL CHIP METAL CHIP METAL GLAZE	2K 1.2K 15K		1/10W 1/10W 1/10W
R132	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	R234	1-216-033-00	METAL GLAZE	220	5%	1/10W
R133	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R235	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R134	1-216-033-00	METAL GLAZE	220	5%	1/10W	R236	1-216-160-00	METAL GLAZE	27	5%	1/8W
R135	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R237	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R136	1-216-160-00	METAL GLAZE	27	5%	1/8W	R238	1-216-068-00	METAL GLAZE	6.2K	5%	1/10W
R137	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R239	1-216-068-00	METAL GLAZE	6.2K	5%	1/10W
R138	1-216-068-00	METAL GLAZE	6.2K	5%	1/10W	R240	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R139	1-216-068-00	METAL GLAZE	6.2K	5%	1/10W	R241	1-216-041-00	METAL GLAZE	470	5%	1/10W
R140	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R242	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R141	1-216-041-00	METAL GLAZE	470	5%	1/10W	R243	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R142	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R244	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R143	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R245	1-216-011-00	METAL GLAZE	27	5%	1/10W
R144	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R246	1-216-059-00	METAL GLAZE	2.7K		1/10W
R145	1-216-011-00	METAL GLAZE	27	5%	1/10W	R247	1-216-619-11	METAL CHIP	47		1/10W
R146	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	R248	1-216-115-00	METAL GLAZE	560K		1/10W
R147	1-216-619-11	METAL CHIP	47	0.50%	1/10W	R249	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R148	1-216-115-00	METAL GLAZE	560K	5%	1/10W	R250	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R149	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	R251	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R150	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	R2 52	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R151	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R2 53	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R152	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R2 54	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R153	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R255	1-216-033-00	METAL GLAZE	220	5%	1/10W
R154	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	R301	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W
R155	1-216-033-00	METAL GLAZE	220	5%	1/10W	R302	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R201 R202 R203	1-216-619-11 1-216-675-11 1-216-667-11	METAL CHIP METAL CHIP METAL CHIP	47 10K 4.7K		1/10W 1/10W 1/10W	R303 R304 R305	1-216-065-00 1-216-081-00 1-218-236-91	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 22K 1	5% 5%	1/10W 1/10W 1/4W
R204	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R306	1-216-009-00	METAL GLAZE	22	5%	1/10W
R205	1-216-025-00	METAL GLAZE	100	5%	1/10W	R307	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R206	1-216-025-00	METAL GLAZE	100	5%	1/10W	R308	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R207 R208 R209	1-216-672-11 1-216-646-11 1-216-653-11	METAL CHIP METAL CHIP METAL CHIP	620	0.50% 0.50% 0.50%	1/10W	R309 R310 R311	1-216-089-00 1-216-105-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 220K 330K	5% 5% 5%	1/10W 1/10W 1/10W
R210	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R312	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R211	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	R313	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R212	1-216-649-11	METAL CHIP	820	0.50%	1/10W	R314	1-216-066-00	METAL GLAZE	5.1K	5%	1/10W
R213	1-216-677-11	METAL CHIP	12K	5%	1/10W	R315	1-216-066-00	METAL GLAZE	5.1K	5%	1/10W
R214	1-216-097-00	METAL GLAZE	100K		1/10W	R316	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R215	1-216-105-00	METAL GLAZE	220K		1/10W	R317	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R216	1-216-017-00	METAL GLAZE	47		1/10W	R320	1-216-043-00	METAL GLAZE	560	5%	1/10W
R217	1-216-636-11	METAL CHIP	240		1/10W	R321	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R218	1-216-647-11	METAL CHIP	680		1/10W	R322	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W

Ref.No.	Part No.	Descript	ion		ı	Ref.No.	Part No.	Descr	iption			
R323 R324 R325	1-216-089-00 1-216-065-00 1-216-065-00	METAL GLA METAL GLA METAL GLA	AZE 4.7K	5% 5% 5%	1/10W 1/10W 1/10W	R546 R547 R548	1-216-085-00 1-216-065-00 1-216-085-00	METAL	GLAZE GLAZE GLAZE	33K 4.7K 33K	5% 5% 5%	1/10W 1/10W 1/10W
R326 R327 R328	1-216-089-00 1-216-105-00 1-216-073-00	METAL GLA METAL GLA METAL GLA	AZE 220K	5% 5% 5%	1/10W 1/10W 1/10W	R549 R550 R551	1-216-081-00 1-216-065-00 1-216-057-00	METAL	GLAZE GLAZE GLAZE	22K 4.7K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W
R329 R330 R331	1-216-037-00 1-216-037-00 1-216-033-00	METAL GLA METAL GLA METAL GLA	AZE 330	5% 5% 5%	1/10W 1/10W 1/10W	R552 R553 R554	1-216-057-00 1-216-017-00 1-216-025-00	METAL	GLAZE GLAZE GLAZE	2.2K 47 100	5% 5% 5%	1/10W 1/10W 1/10W
R332 R333 R334	1-216-037-00 1-216-067-00 1-216-073-00	METAL GLA METAL GLA METAL GLA	AZE 5.6K	5% 5% 5%	1/10W 1/10W 1/10W	R555 R556 R557	1-216-065-00 1-216-073-00 1-216-045-00	METAL METAL METAL		4.7K 10K 680	5% 5% 5%	1/10W 1/10W 1/10W
R335 R336 R501	1-216-083-00 1-216-069-00 1-216-698-11	METAL GLA METAL GLA METAL CHI	AZE 6.8K	5% 5% 0.50%	1/10W 1/10W 1/10W	R558 R559 R560	1-216-017-00 1-216-025-00 1-216-065-00	METAL METAL METAL	GLAZE	47 100 4.7K	5% 5% 5%	1/10W 1/10W 1/10W
R502 R503 R504	1-216-105-00 1-216-697-11 1-216-677-11	METAL GLA METAL CHI METAL CHI	IP 82K		1/10W 1/10W 1/10W	R561 R562 R563	1-216-073-00 1-216-081-00 1-216-065-00	METAL METAL METAL	GLAZE	10K 22K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W
R505 R506 R507	1-216-627-11 1-216-081-00 1-216-085-00	METAL CHI METAL GLA METAL GLA	AZE 22K	0.50% 5% 5%	1/10W 1/10W 1/10W	R564 R565 R574	1-216-065-00 1-216-065-00 1-216-073-00	METAL METAL METAL	GLAZE	4.7K 4.7K 10K	5% 5% 5%	1/10W 1/10W 1/10W
R508 R509 R510	1-216-090-00 1-216-061-00 1-216-065-00	METAL GLA METAL GLA METAL GLA	AZE 3.3K	5% 5% 5%	1/10W 1/10W 1/10W	R575 R576 R577	1-216-065-00 1-216-029-00 1-216-025-00	METAL METAL METAL	GLAZE	4.7K 150 100	5% 5% 5%	1/10W 1/10W 1/10W
R511 R512 R513	1-216-061-00 1-216-065-00 1-216-061-00	METAL GLA METAL GLA METAL GLA	AZE 4.7K	5% 5% 5%	1/10W 1/10W 1/10W	R578 R579 R580	1-216-025-00 1-218-236-91 1-218-236-91	METAL METAL METAL	GLAZE	100 1 1	5%	1/10W 1/4W 1/4W
R514 R515 R516	1-216-065-00 1-216-085-00 1-216-093-00	METAL GLA METAL GLA METAL GLA	AZE 33K	5% 5% 5%	1/10W 1/10W 1/10W	R581 R582 R583	1-216-308-00 1-216-037-00 1-216-081-00	METAL METAL METAL	GLAZE	4.7 330 22K	5% 5% 5%	1/10W 1/10W 1/10W
R519	1-216-085-00 1-216-077-00 1-216-071-00	METAL GLA METAL GLA METAL GLA	AZE 15K	5% 5% 5%	1/10W 1/10W 1/10W	R584 R585 R586	1-216-069-00 1-216-069-00 1-216-114-00	METAL METAL METAL	GLAZE	6.8K 6.8K 510K	5% 5% 5%	1/10W 1/10W 1/10W
R522	1-216-101-00 1-216-064-00 1-216-047-00	METAL GLA METAL GLA METAL GLA	AZE 4.3K	5% 5% 5%	1/10W 1/10W 1/10W	R587 R588 R589	1-216-081-00 1-216-049-00 1-216-027-00	METAL METAL METAL	GLAZE	22K 1K 120	5% 5% 5%	1/10W 1/10W 1/10W
R525	1-216-084-00 1-216-101-00 1-216-061-00	METAL GLA METAL GLA METAL GLA	AZE 150K	5% 5% 5%	1/10W 1/10W 1/10W	R590 R591 R592	1-218-232-91 1-216-031-00 1-216-065-00	METAL METAL METAL	GLAZE	4.7 180 4.7K	5% 5%	1/2W 1/10W 1/10W
R528	1-2 16-115-00 1-2 16-081-00 1-2 16-069-00	METAL GLA METAL GLA METAL GLA	AZE 22K	5% 5% 5%	1/10W 1/10W 1/10W	R593 R594 R595	1-216-041-00 1-216-041-00 1-216-081-00	METAL METAL METAL	GLAZE	470 470 22K	5% 5% 5%	1/10W 1/10W 1/10W
R532	1-2 16-081-00 1-2 16-081-00 1-2 16-661-11	MÉTAL GLA MÉTAL GLA MÉTAL CHI	AZE 22K	5% 5% 0.50%	1/10W 1/10W 1/10W	R596 R597 R598	1-216-049-00 1-216-027-00 1-216-031-00	METAL METAL METAL	GLAZE	1K 120 180	5% 5% 5%	1/10W 1/10W 1/10W
R535	1-2 16-669-11 1-2 16-687-11 1-2 16-680-11	METAL CHI METAL CHI METAL CHI	IP 33K	0.50% 0.50% 0.50%	1/10W	R599 R600 R604	1-216-065-00 1-216-097-00 1-216-049-00	METAL METAL METAL	GLAZE	4.7K 100K 1K	5% 5% 5%	1/10W 1/10W 1/10W
R538	1-2 16-081-00 1-2 16-081-00 1-2 16-081-00	METAL GLA METAL GLA METAL GLA	AZE 22K	5% 5% 5%	1/10W 1/10W 1/10W	R605 R606 R607	1-216-101-00 1-216-101-00 1-216-017-00	METAL METAL METAL	GLAZE	150K 150K 47	5% 5% 5%	1/10W 1/10W 1/10W
R541	1-2 16-081-00 1-2 16-081-00 1-2 16-081-00	METAL GLA METAL GLA METAL GLA	AZE 22K	5% 5% 5%	1/10W 1/10W 1/10W	R608 R609 R610	1-216-696-11 1-216-691-11 1-216-684-11	METAL METAL METAL	CHIP	75K 47K 24K	0.50% 0.50% 0.50%	1/10W
R544	1-2 16-089-00 1-2 16-073-00 1-2 16-073-00	METAL GLA METAL GLA METAL GLA	AZE 10K	5% 5% 5%	1/10W 1/10W 1/10W	R611 R612 R613	1-216-672-11 1-216-066-00 1-216-077-00	METAL METAL METAL	GLAZE	7.5K 5.1K 15K	0.50% 5% 5%	1/10W 1/10W 1/10W

Ref.No.	Part No.	Descrip	tion_			1	Ref.No.	Part No.	Description			
R614 R615 R616	1-216-093-00 1-216-085-00 1-216-081-00	METAL GI METAL GI METAL GI	LAZE	68K 33K 22K	5%	1/10W 1/10W 1/10W	R673 R674 R675	1-216-073-00 1-216-049-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 150K	5% 5% 5%	1/10W 1/10W 1/10W
R617 R618 R619	1-216-081-00 1-216-101-00 1-216-101-00	METAL G METAL G METAL G	LAZE	22K 150K 150K	5%	1/10W 1/10W 1/10W	R676 R677 R678	1-216-073-00 1-216-059-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 2.7K 33K	5% 5% 5%	1/10W 1/10W 1/10W
R620 R621 R622	1-216-097-00 1-216-081-00 1-216-081-00	METAL GI METAL G METAL GI	LAZE	100K 22K 22K	5% 5% 5%	1/10W 1/10W 1/10W	R679 R680 R681	1-216-089-00 1-216-079-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 18K 18K	5% 5% 5%	1/10W 1/10W 1/10W
R623 R625 R626	1-216-077-00 1-216-085-00 1-216-085-00	METAL G METAL G METAL G	LAZE :	15K 33K 33K	5% 5% 5%	1/10W 1/10W 1/10W	R682 R683 R684	1-216-029-00 1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	150 33K 33K	5% 5% 5%	1/10W 1/10W 1/10W
R627 R628 R629	1-216-073-00 1-216-085-00 1-216-085-00	METAL G METAL G METAL G	LAZE	10K 33K 33K	5% 5% 5%	1/10W 1/10W 1/10W	R685 R686 R687	1-216-077-00 1-216-077-00 1-216-117-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 15K 680K	5% 5% 5%	1/10W 1/10W 1/10W
R630 R631 R632	1-216-121-00 1-216-113-00 1-216-080-00	METAL G METAL G METAL G	LAZE	1M 470K 20K	5% 5% 5%	1/10W 1/10W 1/10W	R688 R689 R690	1-216-117-00 1-216-025-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	680K 100 15K	5% 5% 5%	1/10W 1/10W 1/10W
R633 R634 R635	1-216-689-11 1-216-085-00 1-216-073-00	METAL C METAL G METAL G	LAZE	39K 33K 10K	0.50% 5% 5%	1/10W 1/10W 1/10W	R691 R692 R694	1-216-109-00 1-216-065-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	330K 4.7K 3.3K	5% 5% 5%	1/10W 1/10W 1/10W
R636 R637 R638	1-216-081-00 1-216-083-00 1-216-073-00	METAL G METAL G METAL G	LAZE	22K 27K 10K	5% 5% 5%	1/10W 1/10W 1/10W	R695 R696 R697	1-216-053-00 1-216-049-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 1K 33K	5% 5% 5%	1/10W 1/10W 1/10W
R639 R640 R641	1-216-063-00 1-216-041-00 1-216-064-00	METAL GI METAL G METAL GI	LAZE	3.9K 470 4.3K	5% 5% 5%	1/10W 1/10W 1/10W	R698 R699 R700	1-216-085-00 1-216-073-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 10K 33K	5% 5% 5%	1/10W 1/10W 1/10W
R642 R643 R644	1-216-089-00 1-216-075-00 1-216-089-00	METAL G METAL G METAL G	LAZE	47K 12K 47K	5% 5% 5%	1/10W 1/10W 1/10W	R701 R702 R703	1-216-099-00 1-216-099-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	120K 120K 100K	5% 5% 5%	1/10W 1/10W 1/10W
R645 R646 R647	1-216-057-00 1-216-093-00 1-216-051-00	METAL GI METAL G METAL GI	LAZE	2.2K 68K 1.2K	5% 5% 5%	1/10W 1/10W 1/10W	R704 R705 R706	1-216-073-00 1-216-098-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 110K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W
R648 R649 R650	1-216-029-00 1-216-001-00 1-216-001-00	METAL G METAL G METAL G	LAZE	150 10 10	5% 5% 5%	1/10W 1/10W 1/10W	R707 R708 R709	1-216-687-11 1-216-687-11 1-216-063-00	METAL CHIP METAL CHIP METAL GLAZE	33K 33K 3.9K	0.50% 0.50% 5%	
R651 R652 R653	1-216-001-00 1-218-231-00 1-216-029-00	METAL G METAL G METAL G	LAZE	10 1 150	5% 5%	1/10W 1/2W 1/10W	R710 R711 R712	1-216-073-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 1K	5% 5% 5%	1/10W 1/10W 1/10W
R654 R655 R656	1-216-069-00 1-216-065-00 1-216-049-00	METAL G METAL G METAL G	LAZE	6.8K 4.7K 1K	5% 5% 5%	1/10W 1/10W 1/10W	R713 R714 R715	1-216-025-00 1-216-073-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 10K 33K	5% 5% 5%	1/10W 1/10W 1/10W
R657 R658 R660	1-216-049-00 1-216-049-00 1-216-073-00	METAL G METAL G METAL G	LAZE	1K 1K 10K	5% 5% 5%	1/10W 1/10W 1/10W	R716 R717 R718	1-216-049-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 22K 22K	5% 5% 5%	1/10W 1/10W 1/10W
R661 R662 R663	1-216-049-00 1-216-093-00 1-216-073-00	METAL G METAL GI METAL G	LAZE	1K 68K 10K	5%	1/10W 1/10W 1/10W	R719 R720 R721	1-216-081-00 1-216-081-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 6.8K	5% 5% 5%	1/10W 1/10W 1/10W
R664 R665 R666	1-216-059-00 1-216-085-00 1-216-089-00	METAL GI METAL G METAL GI	LAZE	2.7K 33K 47K	5%	1/10W 1/10W 1/10W	R723 R724 R725	1-216-065-00 1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 22K 1K	5% 5% 5%	1/10W 1/10W 1/10W
R667 R668 R669	1-216-075-00 1-216-069-00 1-216-033-00	METAL G METAL G METAL G	LAZE	12K 6.8K 220	5%	1/10W 1/10W 1/10W	R726 R727 R728	1-216-065-00 1-216-033-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 15K	5% 5% 5%	1/10W 1/10W 1/10W
R670 R671 R672	1-216-033-00 1-216-049-00 1-216-074-00	METAL G METAL G METAL G	LAZE	220 1K 11K	5% 5% 5%	1/10W 1/10W 1/10W	R729 R730 R731	1-216-073-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W

Ref.No.	Part No.	Description	1	Ref.No.	Part No.	Description		
R732 R733 R734	1-216-061-00 1-216-061-00 1-216-057-00	METAL GLAZE 3.3K 5% METAL GLAZE 2.2K 5%	1/10W 1/10W 1/10W	S1 S2		SWITCH, SLIDE (HOLD) SWITCH, TACTIL (REFLOW	TYPE) (PAUSE ■)	
R735 R736 R737	1-216-049-00 1-216-053-00 1-216-065-00	METAL GLAZE 1K 5% METAL GLAZE 1.5K 5% METAL GLAZE 4.7K 5%	1/10W 1/10W 1/10W	S3 S4		SWITCH, TACTIL (REFLOW SWITCH, TACTIL (REFLOW	(REC/INDEX ●)	
R740 R741 R742	1-216-121-00 1-216-025-00 1-216-025-00	METAL GLAZE 1M 5% METAL GLAZE 100 5% METAL GLAZE 100 5%	1/10W 1/10W 1/10W	S5 S6 S7	1-571-381-21	SWITCH, TACTIL (REFLOW SWITCH, TACTIL (REFLOW SWITCH, TACTIL (REFLOW	TYPE)(PLAY ►) TYPE)(STOP ■)	
R743 R744 R745	1-249-409-11 1-249-409-11 1-216-033-00	CARBON 220 5% CARBON 220 5% METAL GLAZE 220 5%	1/4W 1/4W 1/10W	\$8 \$9	1-571-364-11	SWITCH, SLIDE (POWER) SWITCH, TACTIL (REFLOW	(REW/REVIEW ◀◀)	
R746 R747 R748	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE 220 5% METAL GLAZE 220 5% METAL GLAZE 220 5%	1/10W 1/10W 1/10W	S10 S11 S12	1-571-381-21 1-571-381-21	SWITCH, TACTIL (REFLOW SWITCH, TACTIL (REFLOW	TYPE)(►) TYPE)(►)	
R801 R802 R803	1-216-091-00 1-216-190-00 1-216-065-00	METAL GLAZE 56K 5% METAL GLAZE 470 5% METAL GLAZE 4.7K 5%	1/10W 1/8W 1/10W	\$13	1-571-381-21	SWITCH, TACTIL (REFLOW SWITCH, TACTIL (REFLOW	TYPE) (RECORDED TIME)	
R804 R805 R806	1-216-073-00 1-216-057-00 1-216-081-00	METAL GLAZE 10K 5% METAL GLAZE 2.2K 5% METAL GLAZE 22K 5%	1/10W 1/10W 1/10W	S14 S15 S16		SWITCH, TACTIL (REFLOW SWITCH, TACTIL (REFLOW SWITCH, TACTIL (REFLOW	TYPE) (LIGHT)	
R807 R808 R810	1-216-629-11 1-216-025-00 1-216-097-00	METAL GLAZE 100 5%	0% 1/10W 1/10W 1/10W	S17 S18 S19	1-571-365-11 1-571-381-21 1-571-381-21		TY'E)(SET)	
R811 R813 R815	1-216-089-00 1-216-641-11 1-216-089-00		1/10W 0% 1/10W 1/10W	S20 S301 S901		SWITCH, TACTIL (REFLOW SWITCH, SLIDE (MIC ATT) SWITCH, LEAF (SLIDER CH		
R816 R817 R818	1-216-093-00 1-216-025-00 1-216-089-00	METAL GLAZE 68K 5% METAL GLAZE 100 5% METAL GLAZE 47K 5%	1/10W 1/10W 1/10W	S902 S903 S904	1-554-154-00 1-570-883-21 1-570-771-11	SWITCH, PUSH (2 KEY)(RE	(CASSETTE CONTROL FRONT CHASSIS) , PUSH (2 KEY)(REC DET/SOFT TAPE DET) (LIMIT DET) , PUSH (2 KEY) (1.5 SPEED DET/CASSETTE DET)	
R819 R820 R821 R822	1-216-081-00 1-216-049-00 1-216-049-00 1-216-009-00	METAL GLAZE 22K 5% METAL GLAZE 1K 5% METAL GLAZE 1K 5% METAL GLAZE 22 5%	1/10W 1/10W 1/10W 1/10W	\$905		SWITCH, PUSH (2 KEY) (1.5 SPEED DET/		
RV1 RV2 RV101	1-23 7-101-11 1-23 7-101-11 1-23 7-297-11	RES, ADJ, METAL GLAZE 4	.7K .7K	W1 W2 W3	1-565-179-21 1-566-683-11 1-565-178-21	HOUSING, CONNECTOR (FPC) 14P HOUSING, CONNECTOR (FPC) 10P HOUSING, CONNECTOR (FPC) 50		
RV103	1-23 7-101-11 1-23 7-298-11 1-23 7-297-11	RES, ADJ, METAL GLAZE 4.7K RES, ADJ, METAL GLAZE 1K RES, ADJ, METAL GLAZE 500		W4 W5 W301	1-565-178-21 1-566-683-11 1-565-056-11	HOUSING, CONNECTOR (FPC HOUSING, CONNECTOR (FPC HOUSING, CONNECTOR 12P) 5	
RV203	1-23 7-101-11 1-23 7-298-11 1-23 7-299-11	RES, ADJ, METAL GLAZE 4 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 2	W501 W502 W503	1-565-058-11 1-565-056-11 1-565-055-11	HOUSING, CONNECTOR 20P HOUSING, CONNECTOR 12P HOUSING, CONNECTOR 10P			
RV303	1-23 7-971-11 1-23 7-972-11 1-23 7-302-11	RES, VAR, CARBON 20KX4 RES, VAR, CARBON 20K/20 RES, ADJ, METAL GLAZE 4	W504 W505 W506	1-565-057-11 1-566-997-11 1-565-056-11	HOUSING, CONNECTOR 14P HOUSING, CONNECTOR (PC HOUSING, CONNECTOR 12P	80AD)		
RV503	1-23 7-302-11 1-23 7-101-11 1-23 7-301-11	RES, ADJ, METAL GLAZE 47K RES, ADJ, METAL GLAZE 4.7K RES, ADJ, METAL GLAZE 22K		X1 X301 X501	1-567-968-11	VIBRATOR, CRYSTAL (32.70 VIBRATOR, CRYSTAL (81.05 VIBRATOR, CRYSTAL (4.19	50Mz)	
RV506 RV507	1-23 7-301-11 1-23 7-302-11 1-23 7-301-11	RES, ADJ, METAL GLAZE 2 RES, ADJ, METAL GLAZE 4 RES, ADJ, METAL GLAZE 2	7K	X502 X503 X504	1-567-970-11	VIBRATOR, CRYSTAL (22.5792H≥) VIBRATOR, CRYSTAL (24.576Mz) VIBRATOR, CRYSTAL (18.816Mz)		
RV508 RV509	1-23 7-302-11 1-23 7-302-11	RES, ADJ, METAL GLAZE 4 RES, ADJ, METAL GLAZE 4		Z1	1-550-104-11	HOLDER, BATTERY		

ACCESSORY & PACKING MATERIAL

1-463-947-11 1-465-018-11 1-551-734-71	
3-345-024-01 3-345-025-01	CUSHION (UPPER) CUSHION (LOWER)
3-345-036-01 3-345-037-01	BELT, CARRYING CASE, CARRYING
*3-345-044-01 *3-345-045-01	INDIVIDUAL CARTON (MAIN) INDIVIDUAL CARTON (LID)
3-701-629-00 3-703-708-41 3-769-507-11	BAG, POLYETHYLENE STICKER, SONY SYMBOL (18) MANUAL, INSTRUCTION
4-875-758-01 8-810-090-00	BAG, PROTECTION MICROPHONE